LG

Website:http://biz.LGservice.com
E-mail:http://www.LGEservice.com/techsup.html

COLOR MONITOR
SERVICE MANUAL

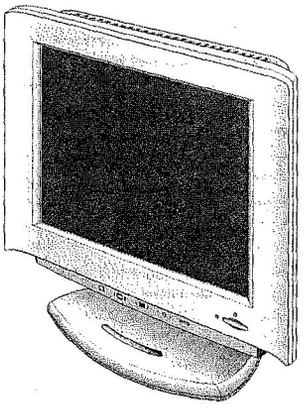
CHASSIS NO. : CL-06

MODEL: StudioWorks 570LE / 570LS, LB570BZ

ID LABEL : LB570D-EA / LB570E-EA / LB570D-EN

CAUTION

BEFORE SERVICING THE UNIT,
READ THE **SAFETY PRECAUTIONS** IN THIS MANUAL.



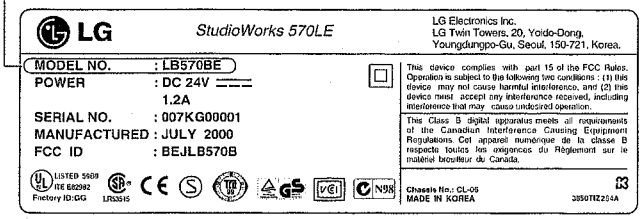
Same looking with New Chassis

Issue Date: JULY 2000

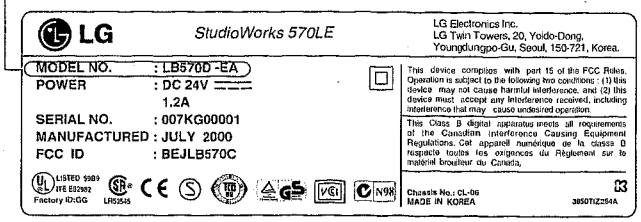
The Discrimination of Same Model Name

• StudioWorks 570LE

→ Model No: LB570BE
Manufactured: Before JULY 2000

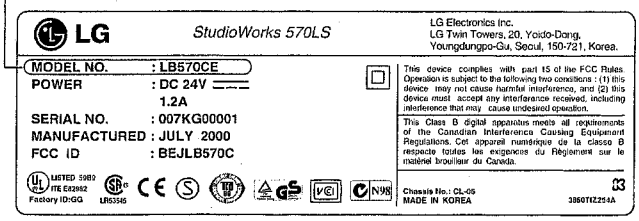

LG
StudioWorks 570LE
LG Electronics Inc.
LG Twin Towers, 20, Yoido-Dong,
Youngdungpo-Gu, Seoul, 150-721, Korea.
MODEL NO. : LB570BE
POWER : DC 24V ⎓
1.2A
SERIAL NO. : 007KG00001
MANUFACTURED : JULY 2000
FCC ID : BEJLB570B
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.
Chassis No.: CL-06
MADE IN KOREA
3850TIZ254A

→ Model No: LB570D-EA
Manufactured: After JULY 2000

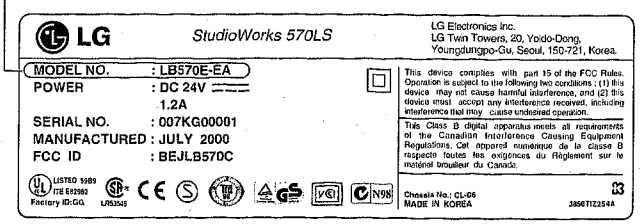

LG
StudioWorks 570LE
LG Electronics Inc.
LG Twin Towers, 20, Yoido-Dong,
Youngdungpo-Gu, Seoul, 150-721, Korea.
MODEL NO. : LB570D-EA
POWER : DC 24V ⎓
1.2A
SERIAL NO. : 007KG00001
MANUFACTURED : JULY 2000
FCC ID : BEJLB570C
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.
Chassis No.: CL-06
MADE IN KOREA
3850TIZ254A

• StudioWorks 570LS

→ Model No: LB570CE
Manufactured: Before JULY 2000


LG
StudioWorks 570LS
LG Electronics Inc.
LG Twin Towers, 20, Yoido-Dong,
Youngdungpo-Gu, Seoul, 150-721, Korea.
MODEL NO. : LB570CE
POWER : DC 24V ⎓
1.2A
SERIAL NO. : 007KG00001
MANUFACTURED : JULY 2000
FCC ID : BEJLB570C
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.
Chassis No.: CL-06
MADE IN KOREA
3850TIZ254A

→ Model No: LB570E-EA
Manufactured: After JULY 2000


LG
StudioWorks 570LS
LG Electronics Inc.
LG Twin Towers, 20, Yoido-Dong,
Youngdungpo-Gu, Seoul, 150-721, Korea.
MODEL NO. : LB570E-EA
POWER : DC 24V ⎓
1.2A
SERIAL NO. : 007KG00001
MANUFACTURED : JULY 2000
FCC ID : BEJLB570C
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.
Chassis No.: CL-06
MADE IN KOREA
3850TIZ254A

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SPECIFICATIONS

1. LCD CHARACTERISTICS

Type	: Color Active Matrix TFT LCD
Size	: 15.1inch (38.35cm)
Pixel Pitch	: 0.3mm x 0.3mm
Pixel Format	: 1024 x 768 pixels (XGA) RGB Stripe Arrangement
Color Depth	: 8-bit, 16 million colors (570LE) 6-bit, 262,000 colors (570LS)
Active Video Area	: 307mm x 230mm
Surface Treatment	: Anti-Glare, Hard Coating (3H)
Backlight Unit	: Two-CCFL (Cold Cathode Fluorescent Lamp)

2. OPTICAL CHARACTERISTICS

2-1. Viewing Angle by Contrast Ratio ≥ 10

Left	: 60° typ., 55° min.
Right	: 60° typ., 55° min.
Top	: 45° typ., 40° min.
Bottom	: 45° typ., 40° min.

2-2. Luminance : 200 cd/m² typ.

2-3. Angle at Half Luminance

Left	: 50° min.
Right	: 50° min.
Top	: 35° min.
Bottom	: 35° min.

2-4. Contrast Ratio : 200° typ.

3. SIGNAL (Refer to the Timing Chart)

3-1. Sync Signal

1) Type : Separate Sync. (Horizontal & Vertical)
2) Input Voltage Level : Low=0~0.8V, High=2.1~5.5V
3) Sync Polarity : Positive or Negative

3-2. Video Input Signal

1) Type	: R, G, B Analog
2) Voltage Level	: 0~0.714 V
a) Color 0, 0	: 0 Vp-p
b) Color 7, 0	: 0.467 Vp-p
c) Color 15, 0	: 0.714 Vp-p
3) Input Impedance	: 75 Ω

3-3. Operating Frequency

Horizontal	: 31 ~ 69kHz
Vertical	: 56 ~ 85Hz

4. POWER SUPPLY

4-1. Power Adaptor

Input	: AC 100~240V, 50/60Hz 1.2A
Output	: DC 24V 1.5A ⊖—(—⊕

4-2. Power Consumption

MODE	H/V SYNC	VIDEO	POWER CONSUMPTION	LED COLOR
POWER ON (NORMAL)	ON/ON	ACTIVE	less than 36 W	GREEN
STAND-BY	OFF/ON	OFF	less than 3 W	ORANGE
SUSPEND	ON/OFF	OFF	less than 3 W	ORANGE
OFF	OFF/OFF	OFF	less than 3 W	ORANGE
POWER OFF	-	-	less than 3 W	OFF

5. ENVIRONMENT

5-1. Operating Temperature:	10°C~35°C (50°F~95°F) (Ambient)
5-2. Relative Humidity	: 10%~80% (Non-condensing)
5-3. Altitude	: 0~10,000ft (3,030m)

6. DIMENSIONS (with TILT/SWIVEL)

Width	: 405.2mm (15.95")
Depth	: 182.4mm (7.18")
Height	: 361.6mm (14.24")

7. WEIGHT (with TILT/SWIVEL)

Net. Weight	: 5.2kg (11.46 lbs)
Gross Weight	: 7.1kg (15.65 lbs)

PRECAUTION

WARNING FOR THE SAFETY-RELATED COMPONENT.

- There are some special components used in LCD monitor that are important for safety. These parts are marked ⚠ on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent electric shock, fire or other hazard.
- Do not modify original design without obtaining written permission from LG or you will void the original parts and labor guarantee.

TAKE CARE DURING HANDLING THE LCD MODULE WITH BACKLIGHT UNIT.

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body are grounded through wrist band.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- The module not be exposed to the direct sunlight.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel become dirty, please wipe it off with a softmaterial. (Cleaning with a dirty or rough cloth may damage the panel.)

⚠ CAUTION

Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

⚠ WARNING

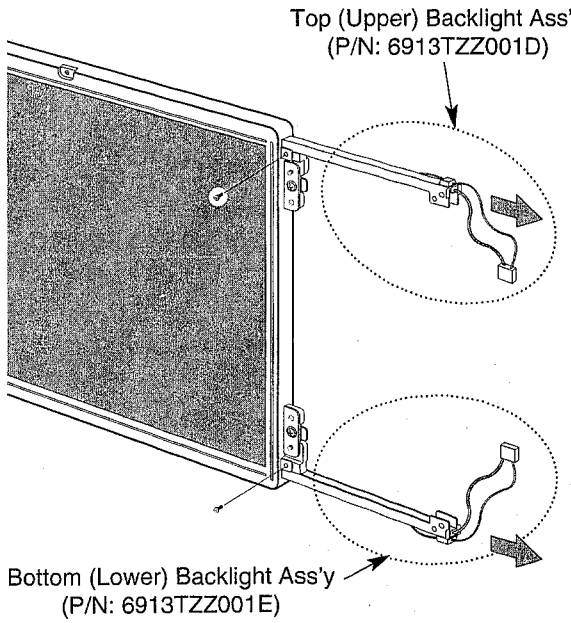
BE CAREFUL ELECTRIC SHOCK !

- If you want to replace with the new backlight (CCFL) or inverter circuit, must disconnect the AC adapter because high voltage appears at inverter circuit about 650Vrms.
- Handle with care wires or connectors of the inverter circuit. If the wires are pressed cause short and may burn or take fire.

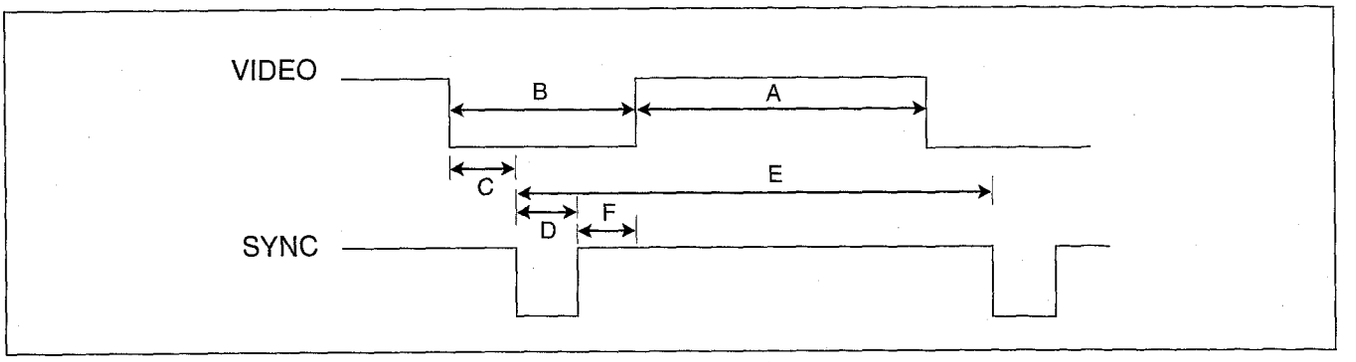
⚠ CAUTION

IF BRIGHTNESS OF THE LCD MODULE DARKEN, REPLACE THE BACKLIGHT ONE OR ALL.

- There is two backlight, must distinguish between the top (upper) and the bottom (lower), and be careful of treatment it.
- MTBF (Mean Time Between Failure) of a backlight is about 25,000 hours.



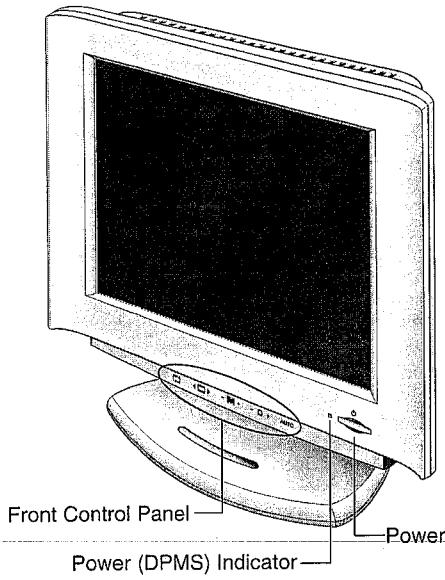
TIMING CHART



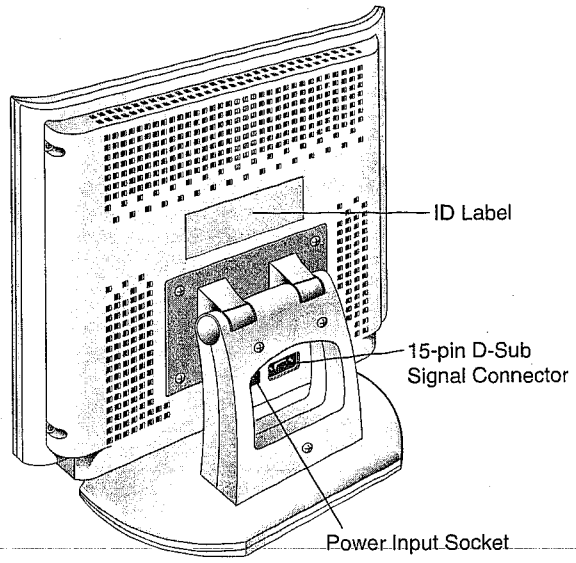
MODE	H / V	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Video Active Time (A)	Blanking Time (B)	Sync Duration (D)	Back Porch (F)	Front Porch (C)	Resolution
1	H (Pixels)	+	25.175	31.468 KHz	800	640	160	96	48	16	640 x 350
	V (Lines)	–		70.0 Hz	449	350	99	2	60	37	
2	H (Pixels)	–	28.322	31.468 KHz	900	720	180	108	55	17	720 x 400 (TEXT)
	V (Lines)	+		70.0 Hz	449	400	49	2	34	13	
3	H (Pixels)	–	25.175	31.469 KHz	800	640	160	96	48	16	640 x 480
	V (Lines)	–		60.0 Hz	525	480	45	2	33	10	
4	H (Pixels)	–	30.24	35.00 KHz	864	940	224	64	96	64	640 x 480
	V (Lines)	–		66.67 Hz	525	480	45	3	39	3	
5	H (Pixels)	–	31.5	37.50 KHz	840	640	200	64	120	16	640 x 480
	V (Lines)	–		75.0 Hz	500	480	20	3	16	1	
6	H (Pixels)	–	36.0	43.27 KHz	832	640	192	56	80	56	640 x 480
	V (Lines)	–		85.0 Hz	509	480	29	3	25	1	
7	H (Pixels)	+	36.0	35.156 KHz	1024	800	224	72	128	24	800 x 600
	V (Lines)	+		56.25 Hz	625	600	25	2	22	1	
8	H (Pixels)	+	40.0	37.879 KHz	1056	800	256	128	88	40	800 x 600
	V (Lines)	+		60.3 Hz	628	600	28	4	23	1	
9	H (Pixels)	+	50.0	48.077 KHz	1040	800	240	120	64	56	800 x 600
	V (Lines)	+		72.188 Hz	666	600	66	6	23	37	
10	H (Pixels)	+	49.5	46.875 KHz	1056	800	256	80	160	16	800 x 600
	V (Lines)	+		75.0 Hz	625	600	25	3	21	1	
11	H (Pixels)	+	56.25	53.670 KHz	1048	800	248	64	152	32	800 x 600
	V (Lines)	+		85.06 Hz	631	600	31	3	27	1	
12	H (Pixels)	–	57.2832	49.725 KHz	1152	832	320	64	224	32	832 x 624 (MAC)
	V (Lines)	–		74.55 Hz	667	624	43	3	39	1	
13	H (Pixels)	–	65	48.363 KHz	1344	1024	320	136	160	24	1024 x 768
	V (Lines)	–		60.0 Hz	806	768	38	6	29	3	
14	H (Pixels)	–	75	56.476 KHz	1328	1024	304	136	144	24	1024 x 768
	V (Lines)	–		70.0 Hz	806	768	38	6	29	3	
15	H (Pixels)	+	78.75	60.023 KHz	1312	1204	288	96	176	16	1024 x 768
	V (Lines)	+		75.0 Hz	800	768	32	3	28	1	
16	H (Pixels)	+	95.50	68.670 KHz	1376	1024	352	96	208	48	1024 x 768
	V (Lines)	+		85.0 Hz	808	768	40	3	36	1	

OPERATING INSTRUCTIONS

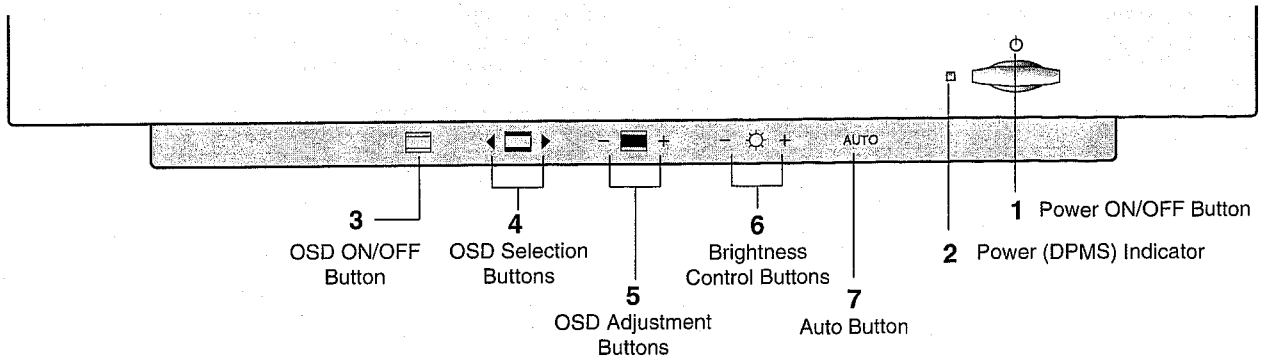
FRONT VIEW



REAR VIEW



Front Control Panel



1. **Power ON/OFF Button**
   This button is used to turn the monitor ON and OFF.

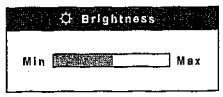
2. **Power Indicator**
   This indicator lights up green when the monitor operates normally; in DPMS (Energy Saving) mode, - stand-by, suspend, or power off mode - its color changes to orange.

3. **OSD ON/OFF Button**
   Use this button to start and exit from the On-Screen-Display(OSD).

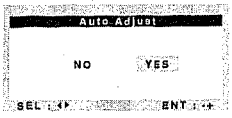
4. **◀ ▶ OSD Selection Buttons**
   Use these buttons to select (highlighting) an OSD icon.

5. **− + OSD Adjustment Buttons**
   Use these buttons for adjusting the level of the selected item.

6. **− + Brightness Control Buttons**
   Use these buttons for adjusting the brightness of screen.



7. AUTO **Auto Button**
   This button is for the automatic adjustment of the screen position, clock, and clock phase.



On-Screen-Display (OSD) Control

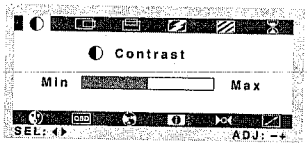
To adjust an image size, position and operating parameters are quick and easy with the On-Screen-Display control system.

1. To start the OSD, press OSD ON/OFF button. ( )
2. Select an OSD icon with OSD Selection buttons. ( )
3. Adjust the level of the selected item with OSD Adjustment buttons. (- +)
4. To exit the OSD, press OSD ON/OFF button ( ) once again.

Listed below are icons, icon names and icon descriptions of the OSD menu.

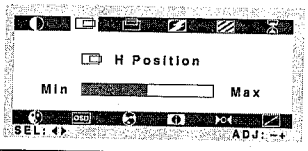
Contrast

To adjust the screen contrast level.



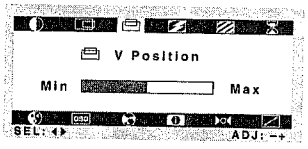
H Position

To move the image left or right.



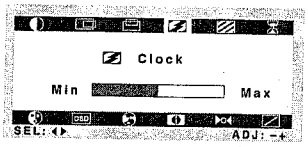
V Position

To move the image up or down.



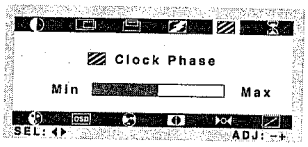
Clock

To adjust the horizontal size of the image.



Clock Phase

To adjust the focus of the display.

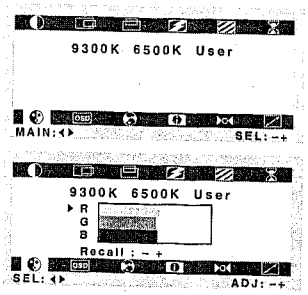


OSD Time

To select OSD display time. (5~100 seconds)

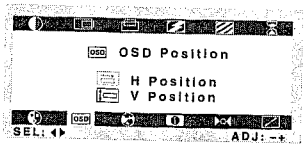
Color Select

To select color temperature or set color level; 9300K / 6500K / User.



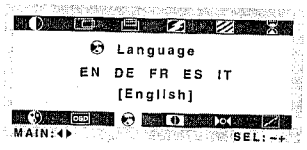
OSD Position

To adjust OSD image's horizontal and vertical position.



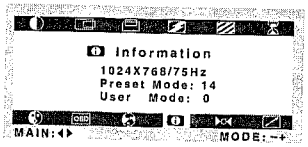
Language Select

To choose one of the five languages for the OSD menu.



Information

To inform preset and user mode data. This item provides information about the stored video modes.



Mode Recall

This control will reset the image to factory preset mode.

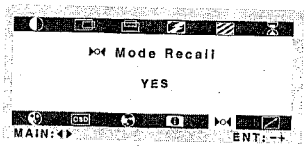
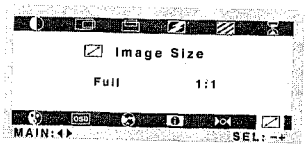


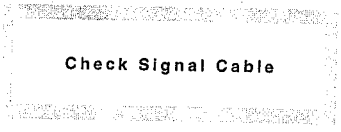
Image Size

This function displays the image in its original size or enlarged size so as to fit in the full screen of the LCD Panel.

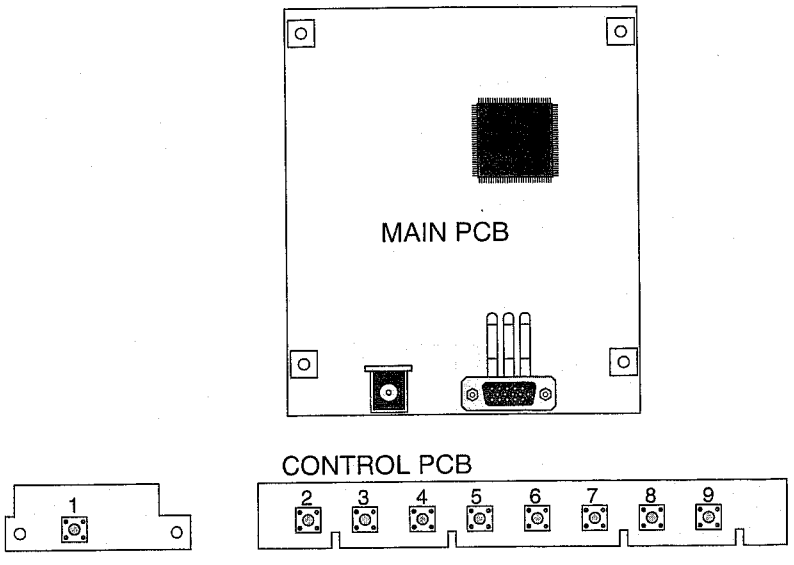


Self Diagnosis

This monitor has a **SELF DIAGNOSIS** OSD feature that is pops up when the signal cable is not connected between a PC and a monitor. The message will be highlighted as below.

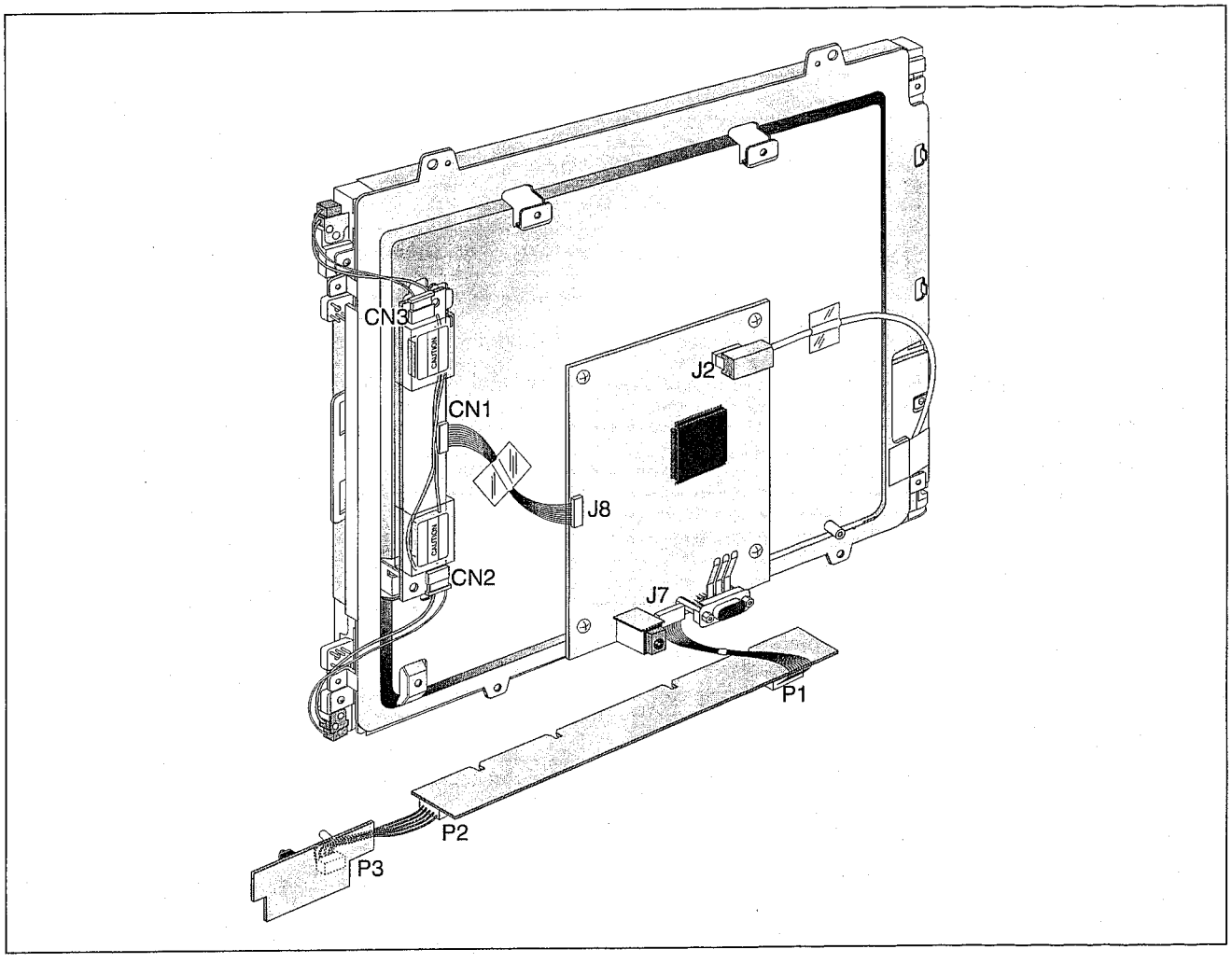


CONTROL LOCATIONS



NO.	Ref. No.	Control Function
1	S9	POWER SWITCH
2	S1	AUTO BUTTON
3	S2	BRIGHTNESS +
4	S3	BRIGHTNESS –
5	S4	OSD +
6	S5	OSD –
7	S6	OSD RIGHT
8	S7	OSD LEFT
9	S8	OSD ON/OFF

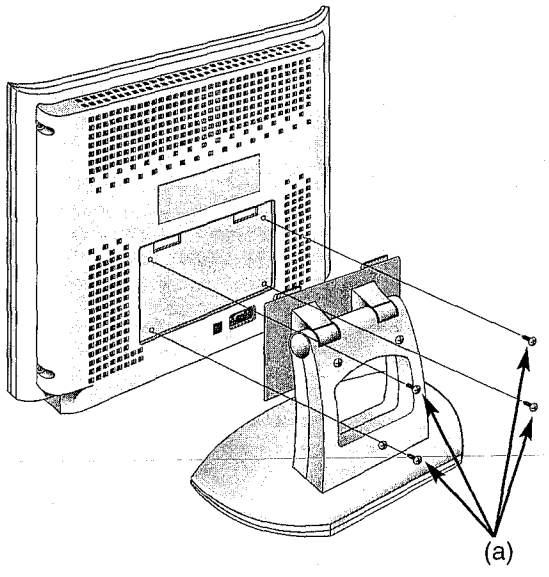
WIRING DIAGRAM



DISASSEMBLY

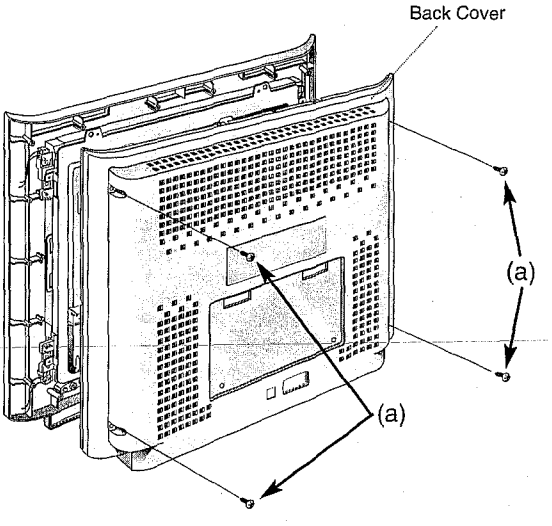
1. TILT/SWIVEL REMOVAL

(1) Remove four screws (a).
(2) Remove the Tilt/swivel.



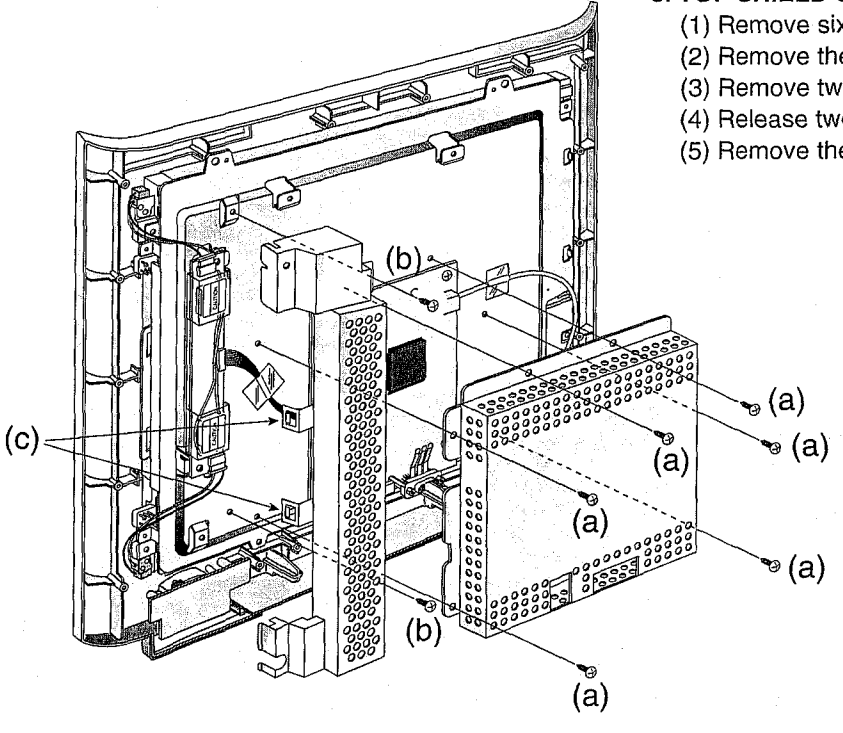
2. BACK COVER REMOVAL

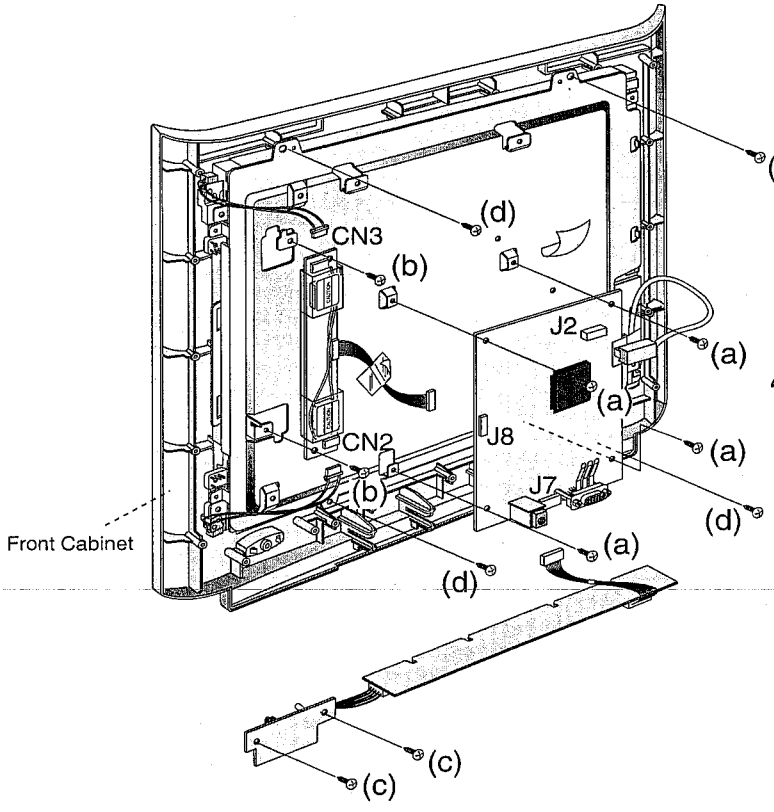
(1) Remove four screws (a) from the Back Cover.
(2) Remove the Back Cover.



3. TOP SHIELD & INVERTER SHIELD REMOVAL

(1) Remove six screws (a).
(2) Remove the Top Shield.
(3) Remove two screws (b).
(4) Release two latchs (c).
(5) Remove the Inverter Shield.



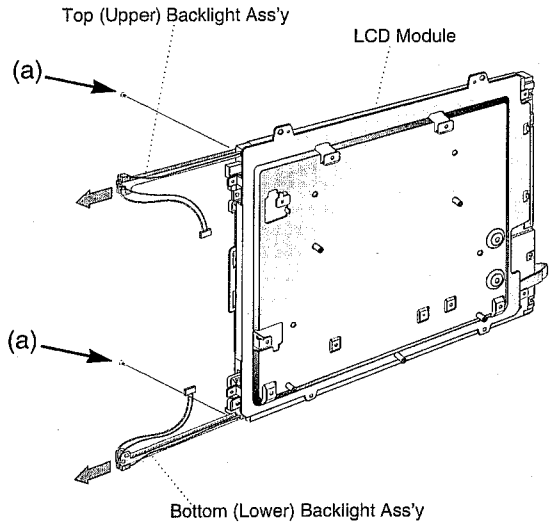


4. INVERTER, POWER, CONTROL, AND MAIN PCB ASSEMBLY REMOVAL

(1) Disconnect J8, J2 and J7.
(2) Remove four screws (a).
(3) Remove the Main PCB Ass'y.
(4) Disconnect CN2 and CN3.
(5) Remove two screws (b).
(6) Remove the Inverter PCB Ass'y.
(7) Remove two screws (c).
(8) Remove the Control and Power PCB Ass'y.
(9) Remove four screws (b).
(10) Remove the Front Cabinet.

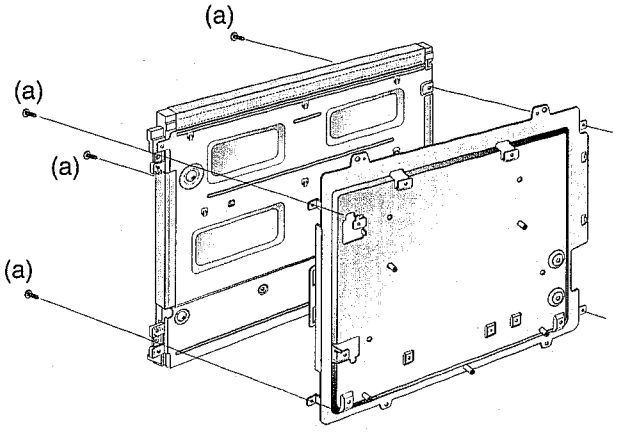
5. BACKLIGHT REMOVAL

(1) Remove two screws (a).
(2) Remove the Backlight from the LCD Module.

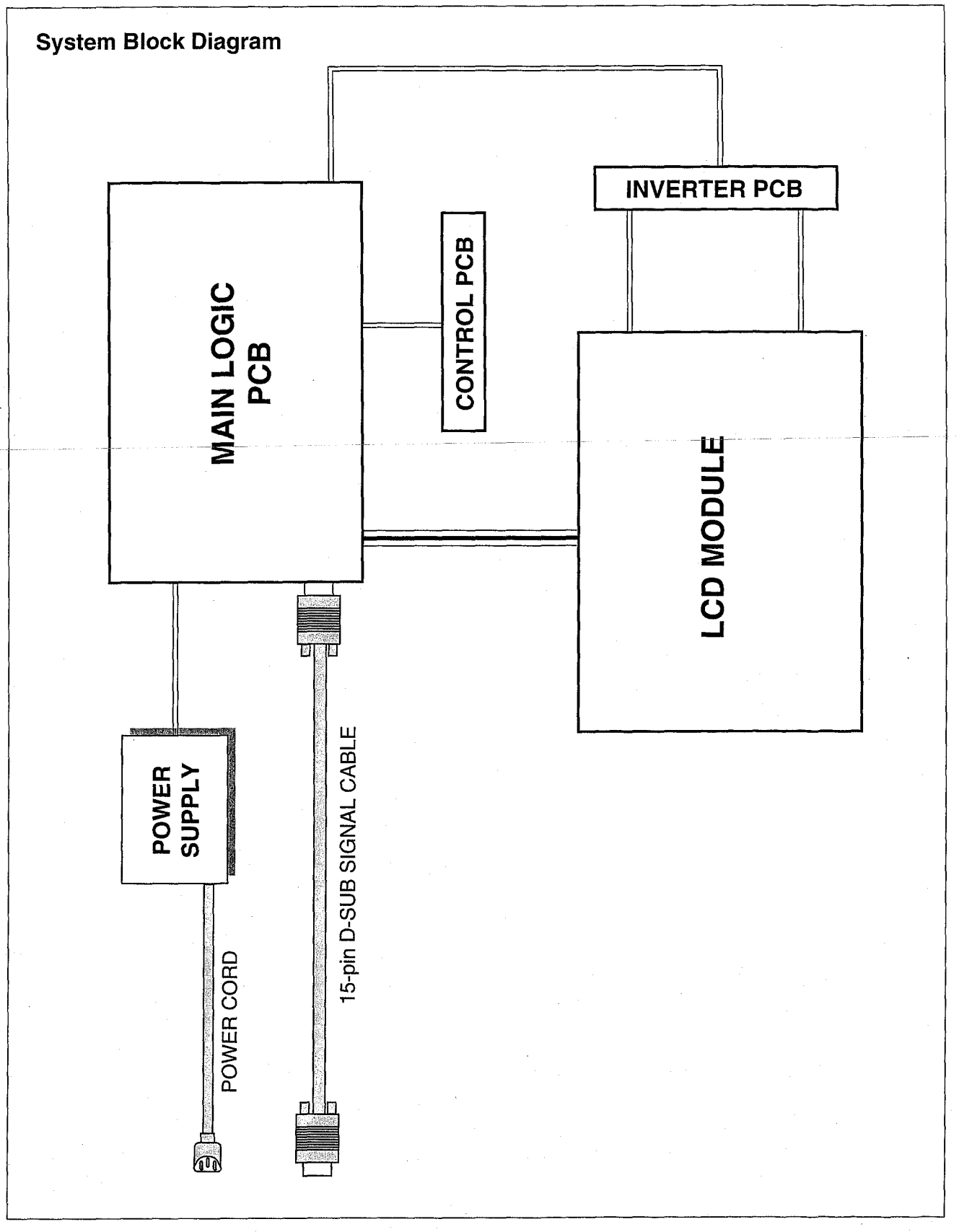


6. LCD MODULE REMOVAL

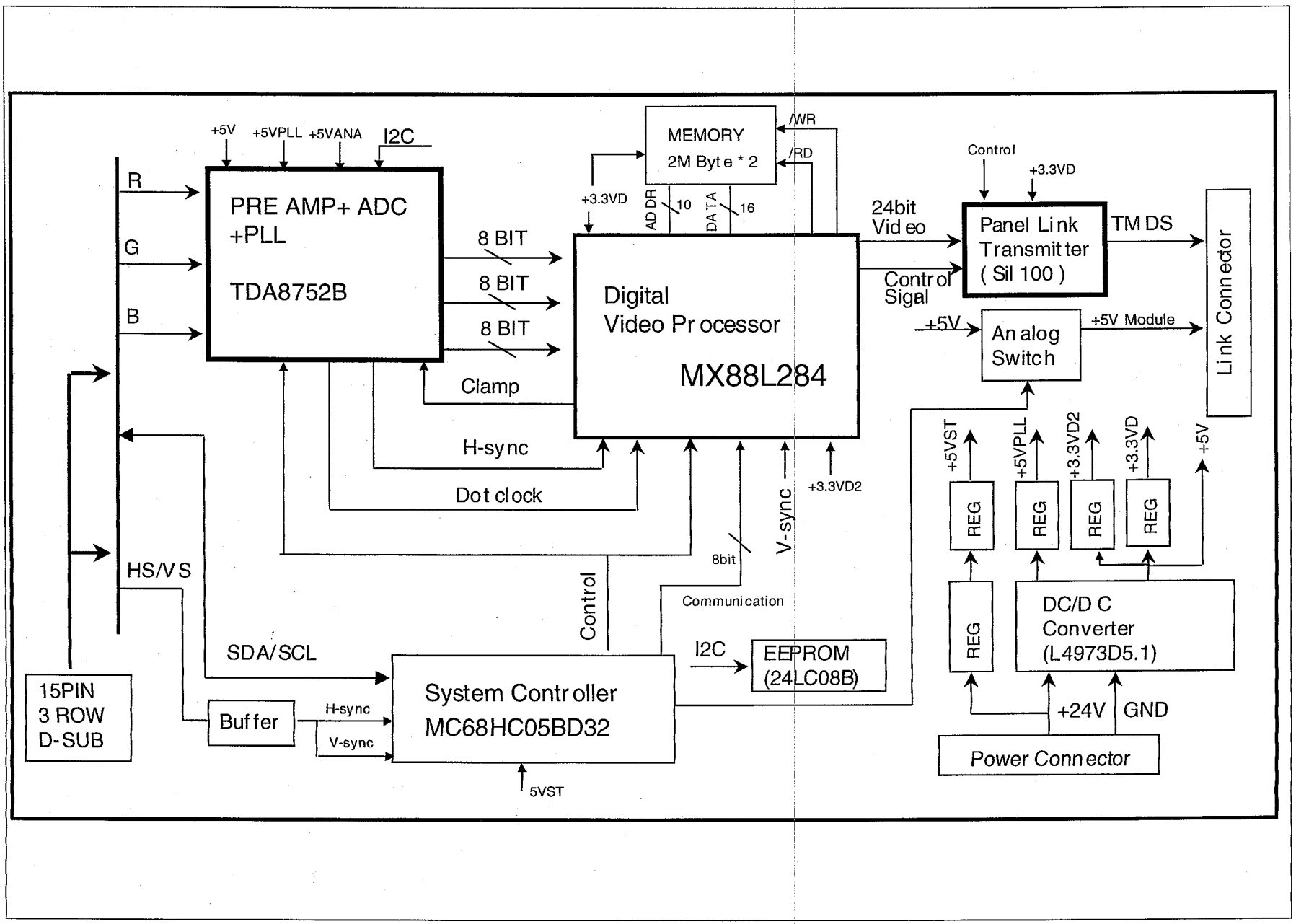
(1) Remove four screws (a).
(2) Separate the LCD Module from the Main Frame.



BLOCK DIAGRAM



BLOCK DIAGRAM FOR LB570D (570LE)



DESCRIPTION OF BLOCK DIAGRAM FOR LB570D (570LE)

1. Video Amp & PLL & A/D Converter Circuit

TDA8752 (U1) is one chip IC which it supports three function block of Video Amp, PLL and A/D converter. Video signal (0.7Vp.p) clamped through C6, 7, 16 inputs to U18's R, G, and B pins. The signal level is 0.7Vac added 3Vdc. This signal is processed as a proper 8 bit digital signal for input of MX88L284 (U5) by U1's amplifying, phase locking, and A/D converting operation.
U1 generates clock and horizontal sync for MX88L284 (U5) with D-sub (J1)'s input horizontal sync signal. MX88L284 (U5)'s clamp output makes U1 keep video signal's black level constantly regardless of various input video signals.

2. Macronix Circuit (Scaler chip)

The MX88L284 (U5) gets the video signal converted analog to digital from U1, and carries out four function of image processing that interpolates input signal less than 1024x768 resolution to that of 1024x768 resolution, displays one to one image without interpolation, mixes OSD(On Screen Display) signal by interfacing with internal OSD IC, and controls two memories(U6, 7) as frame converter.
U5 outputs signals of HSYNC-OUT, VSYNC-OUT, DEN, CLKA-ODD, and each 8 bit R, G, B to transmitter IC (U16).

3. Memory Circuit

2M byte SDRAM(U6, 7) is used as a frame converter for supporting up to 85 Hz frame rate and controlled by MX88L284(U5).
The control signals are CKA, CLK, UDOM, LDOM, /WE, /CAS, /RAS, /CS, /BA.

4. Panel-Link Circuit

Panel link transmitter (U16) delivers digital signal to the receiver inside LCD module by method of abstraction. The abstracted signals are pairs of TX0+-, TX1+-, TX2+-, TXC+- of which voltage swing is 0.5V each. Its swing is similar to LVDS (Low Voltage Differential Signal).
Transmitter (U16) gets signals of HSYNC-OUT, VSYNC-OUT, DEN, CLKA-ODD from U5, and outputs TMDS (Transition Minimized Differential Signal) through TX pins.
When PD pin's input is low, transmitter goes to power down mode.

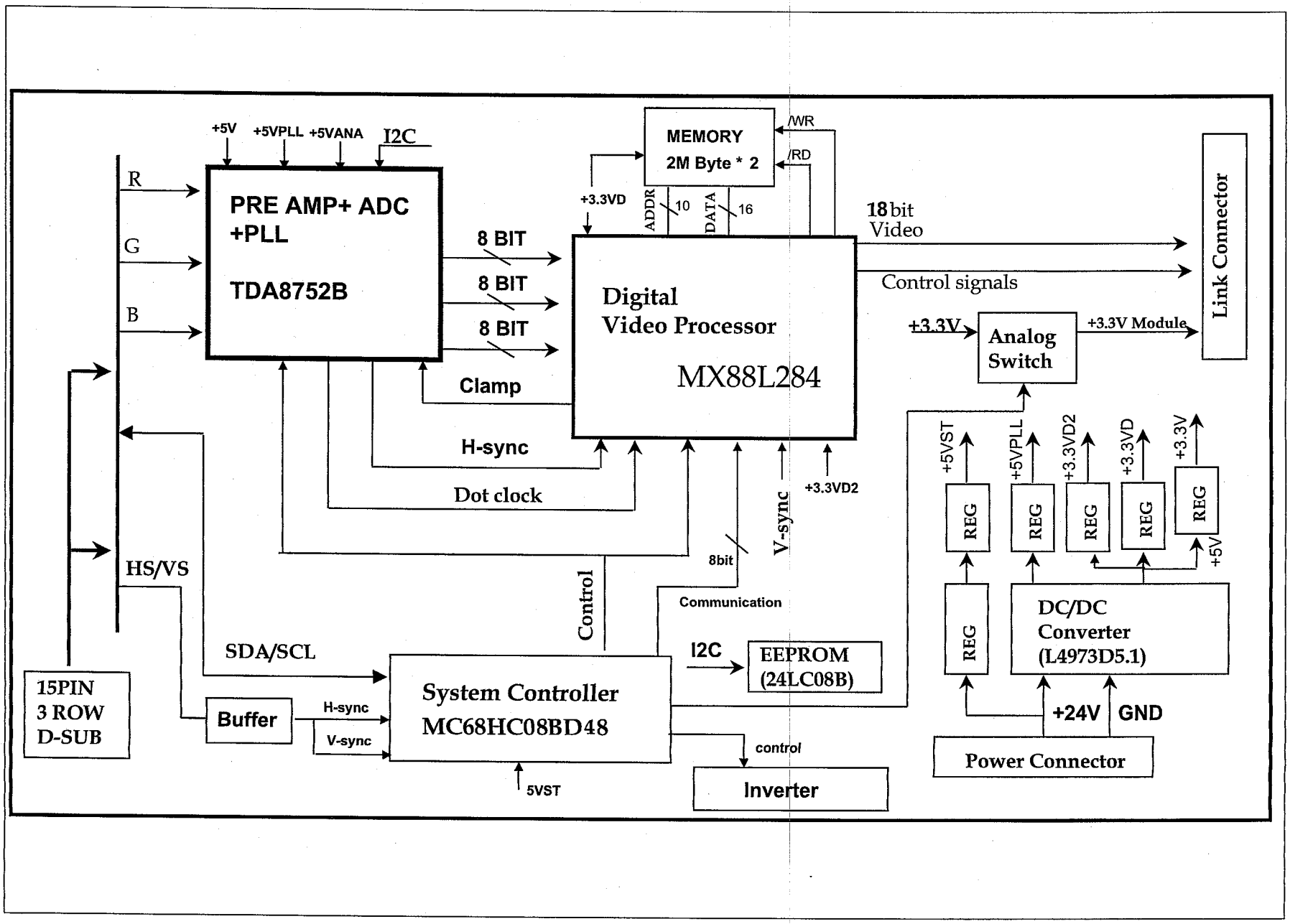
5. System Controller (Microprocessor) Circuit

1) Microprocessor (U4) distinguishes polarity and frequency by calculating horizontal and vertical sync input from signal source.
2) Microprocessor (U4) carries out power control by sending power-down trigger signal to each IC. U1, U5, U16, and U13 has PD(Power-down) pin which operates at active-low or high. It also outputs signal to turn inverter on and off for lamp control.
3) Microprocessor (U4) communicates with EEPROM (U3), TDA8752 (U1), and MX88L284 (U5) through IIC(2 lines) or 8 bit bus line. It makes all devices operated properly with communication channel.
4) Microprocessor (U4) let User adjust screen by each OSD function.

6. DC/ DC Converter

This circuit supplies DC power for each device needing DC voltage of+3.3VD, +3.3VD2, +5V, 5VPLL, and 5VST. L4973D5.1(U13) , the DC/DC controller IC converts input 24Vdc into +5Vdc and +3.3Vdc with peripheral circuit composed of Transformer (TRANS1), condensing components (ZD5, D6, C201, C26, C72, C73) and Regulators (U17, U2, U24). 5VST is supplied for Microprocessor through regulators (U11, U22).
+5VMOD for LCD module power are switched by U12, switching FET, controlled by Microprocessor.

BLOCK DIAGRAM FOR LB570E (570LS)



DESCRIPTION OF BLOCK DIAGRAM FOR LB570E (570LS)

1. Video Amp & PLL & A/D Converter Circuit

TDA8752 (U1) is one chip IC which it supports three function block of Video Amp, PLL and A/D converter. Video signal (0.7Vp.p) clamped through C6, 7, 16 inputs to U18's R, G, and B pins. The signal level is 0.7Vac added 3Vdc. This signal is processed as a proper 8 bit digital signal for input of MX88L284 (U5) by U1's amplifying, phase locking, and A/D converting operation.
U1 generates clock and horizontal sync for MX88L284 (U5) with D-sub (J1)'s input horizontal sync signal. MX88L284 (U5)'s clamp output makes U1 keep video signal's black level constantly regardless of various input video signals.

2. Macronix Circuit (Scaler chip)

The MX88L284 (U5) gets the video signal converted analog to digital from U1, and carries out four function of image processing that interpolates input signal less than 1024x768 resolution to that of 1024x768 resolution, displays one to one image without interpolation, mixes OSD(On Screen Display) signal by interfacing with internal OSD IC, and controls two memories(U6, 7) as frame converter.
U5 outputs signals of HSYNC-OUT, VSYNC-OUT, DEN, CLKA-ODD, and each 8 bit R, G, B to LCD module.

3. Memory Circuit

2M byte SDRAM(U6, 7) is used as a frame converter for supporting up to 85 Hz frame rate and controlled by MX88L284(U5).
The control signals are CKA, CLK, UDOM, LDOM, /WE, /CAS, /RAS, /CS, /BA.

4. System Controller (Microprocessor) Circuit

1) Microprocessor (U4) distinguishes polarity and frequency by calculating horizontal and vertical sync input from signal source.
2) Microprocessor (U4) carries out power control by sending power-down trigger signal to each IC. U1, U5, and U13 has PD(Power-down) pin which operates at active-low or high. It also outputs signal to turn inverter on and off for lamp control.
3) Microprocessor (U4) communicates with EEPROM (U3), TDA8752 (U1), and MX88L284 (U5) through IIC(2 lines) or 8 bit bus line. It makes all devices operated properly with communication channel.
4) Microprocessor (U4) let User adjust screen by each OSD function.

5. DC/ DC Converter

This circuit supplies DC power for each device needing DC voltage of+3.3VD, +3.3VD2, +5V, 5VPLL, and 5VST. L4973D5.1(U13) , the DC/DC controller IC converts input 24Vdc into +5Vdc and +3.3Vdc with peripheral circuit composed of Transformer (TRANS1), condensing components (ZD5, D6, C201, C26, C72, C73) and Regulators (U17, U2, U24). 5VST is supplied for Microprocessor through regulators (U10, U11, U22).
+3.3VMOD for LCD module power are switched by U12, switching FET, controlled by Microprocessor.

ADJUSTMENT

All adjustment are thoroughly checked and corrected when the monitor leaves the factory, but sometimes several minor adjustment may be required.
Adjustment should be following procedure and after warming up for a minimum of 10 minutes.
Alignment appliances and tools.

- IBM Compatible PC
- Programmable Signal Generator.
  (eg. VG-819 made by Astrodesign Co.)
- E(E)PROM with each mode data saved.
- Alignment Adapter and Software.

1. Adjustment for Factory Preset Mode

1) Run alignment program for 570LE-New or 570LS-New on the IBM compatible PC.
2) Select EEPROM all clear command and Enter.
3) Display cross hatch pattern at Mode 1.
4) Select COMMAND PRESET START command.
5) Select FOS DEFAULT command and Enter.
6) Press "Y" key, it will automatically save all FOS data to EEPROM.

2. Adjustment for White Balance

1) Display color 0,0 pattern at Mode 13.
2) Set External Bright to MAX position and Contrast to MAX Position.
3) Select PRESET START → BIAS CAL command and Enter.
4) No attempt to manually adjust, BIAS data is automatically adjusted and saved to the EEPROM.
5) Display color 15,0 pattern at Mode 13.
6) Select DRIVE CAL command and Enter.
7) Color 1 (9300K) and Color 2 (6500K) are automatically adjusted and saved to the EEPROM.
8) Select PRESET EXIT command and Enter.

3. DDC Data Write Procedure

1) Use this procedure only when there is some probelm on EDID data.
2) Select EEPROM → EDID Write command and Enter.
3) This will write the EDID data to EEPROM.

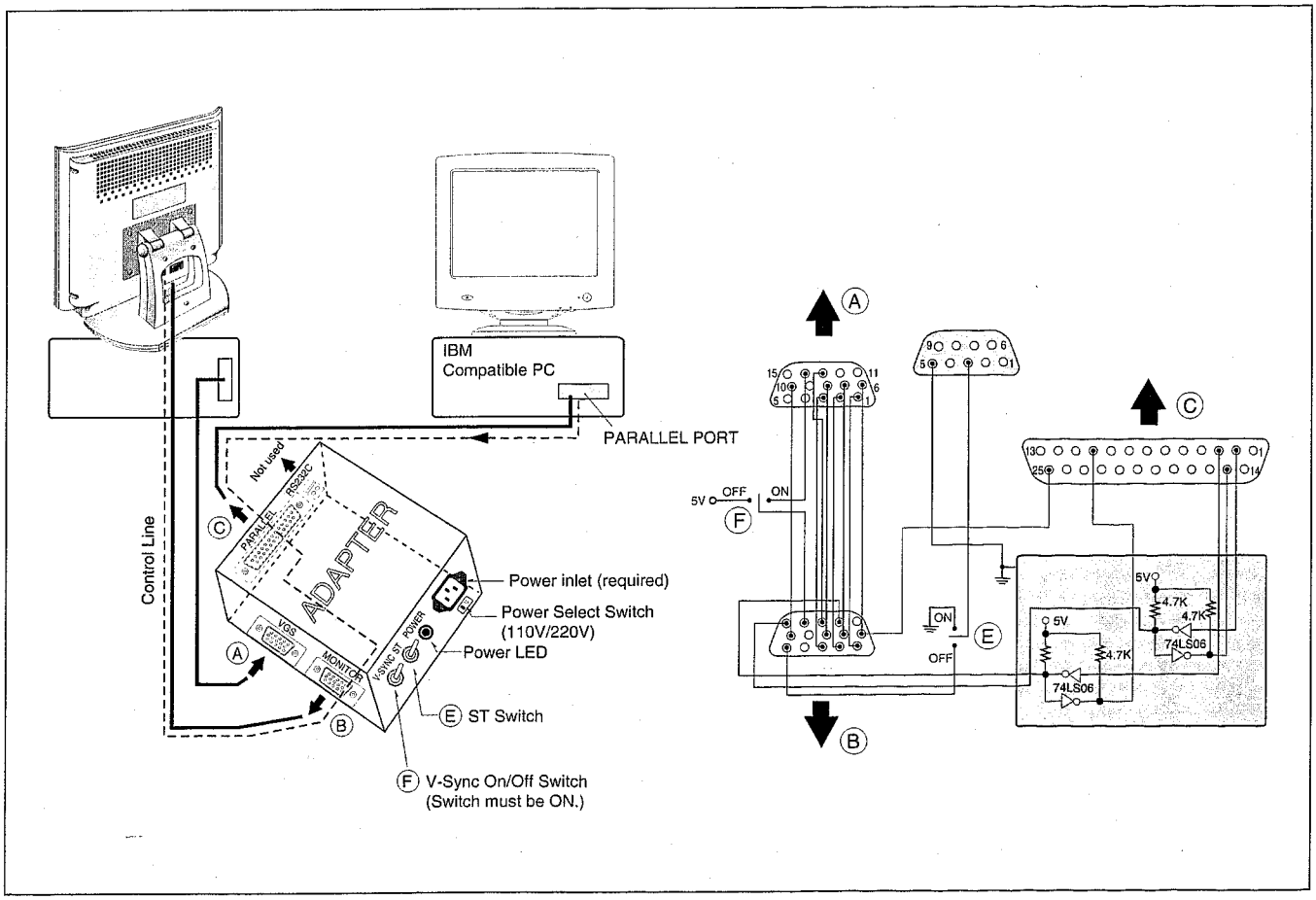
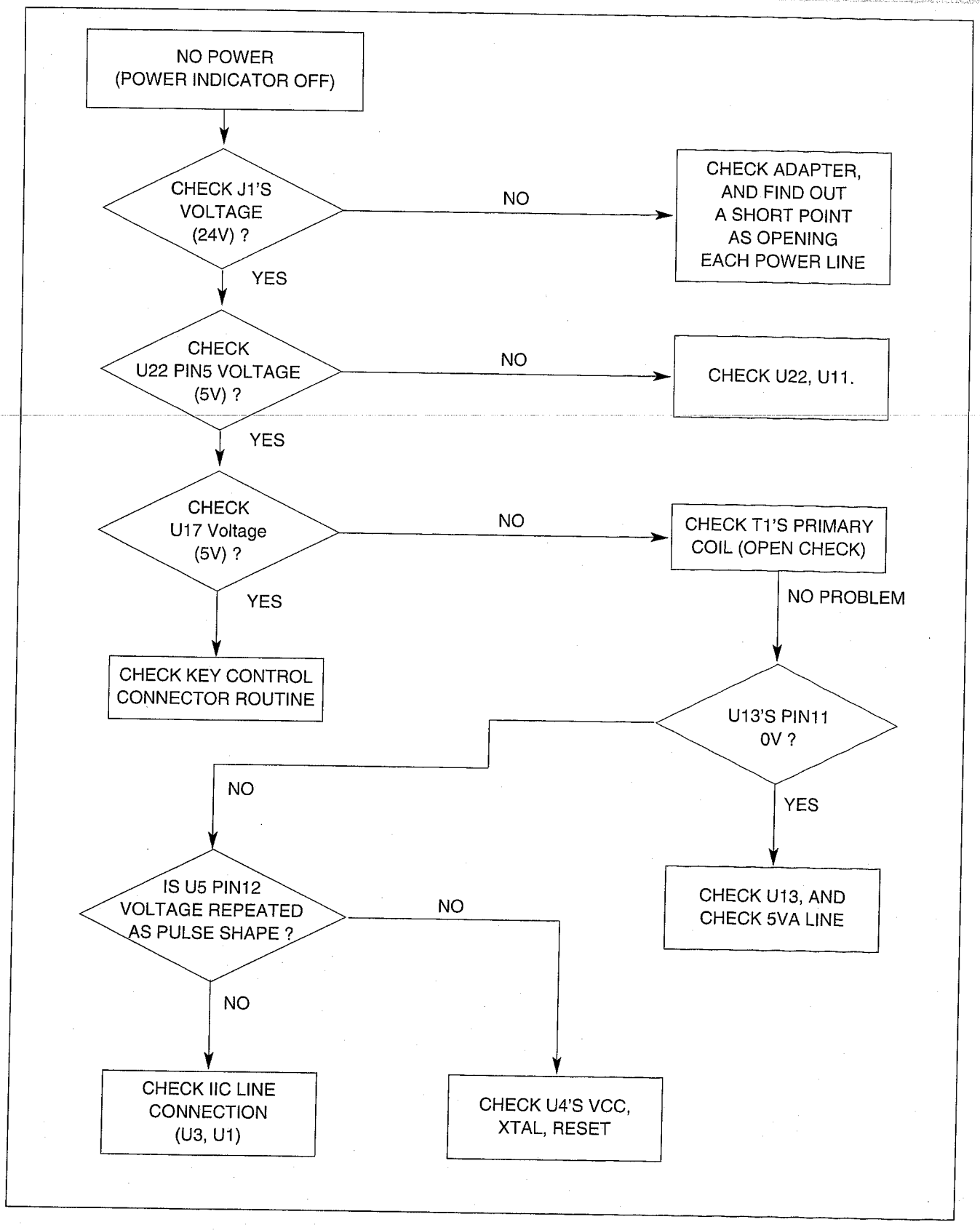


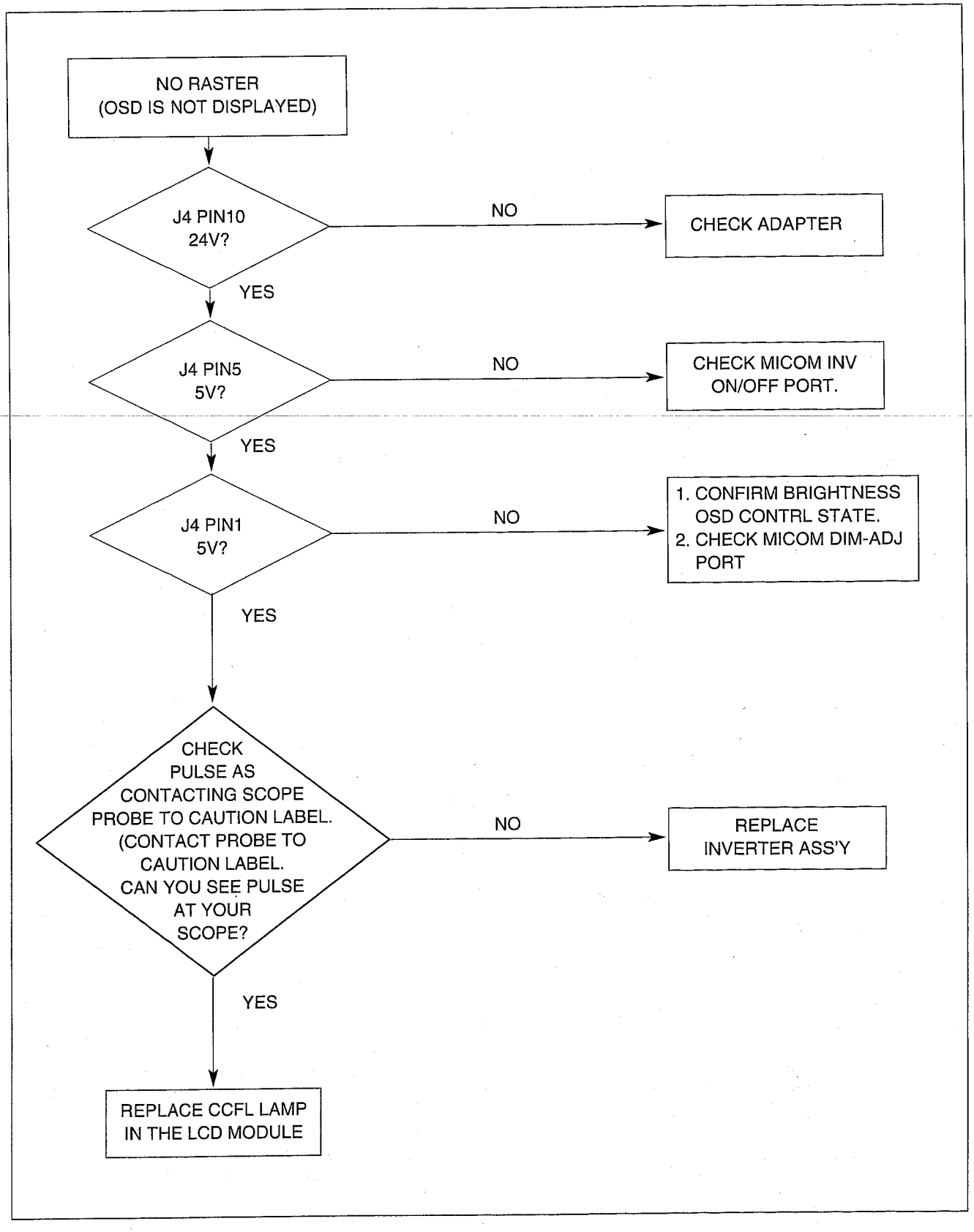
Figure 1. Cable Connection

TROUBLESHOOTING GUIDE

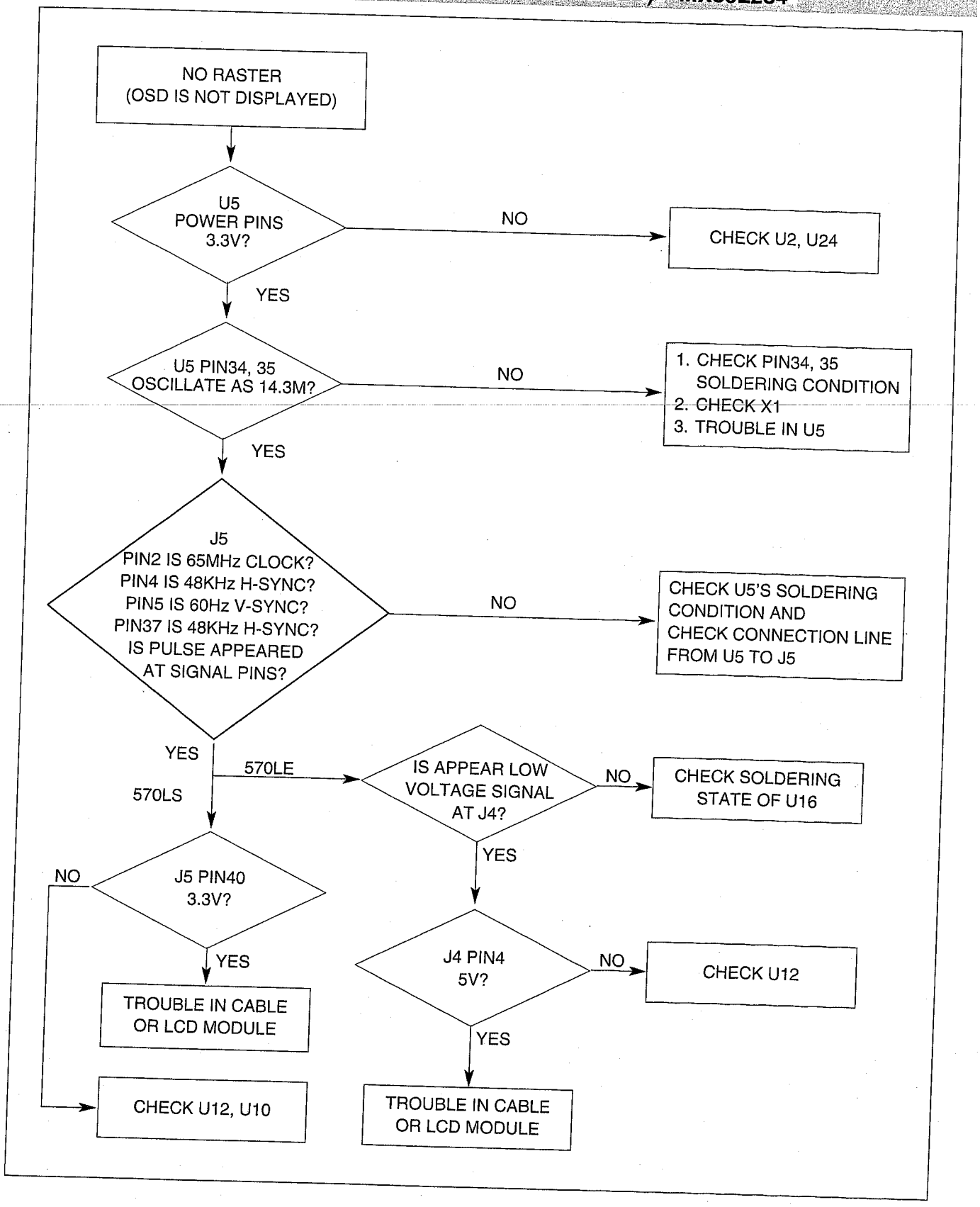
1. NO POWER



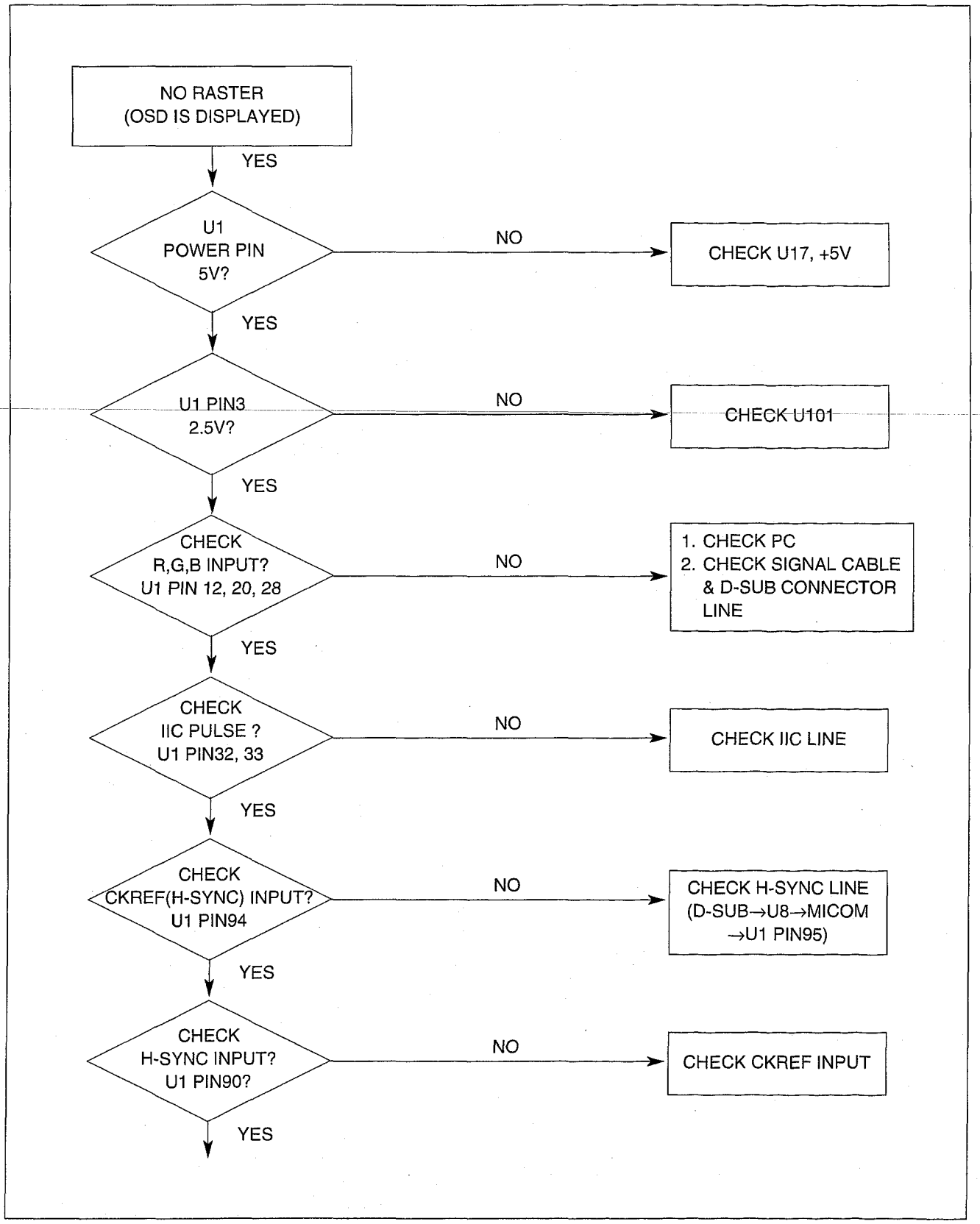
2. NO RASTER (OSD IS NOT DISPLAYED) – INVERTER



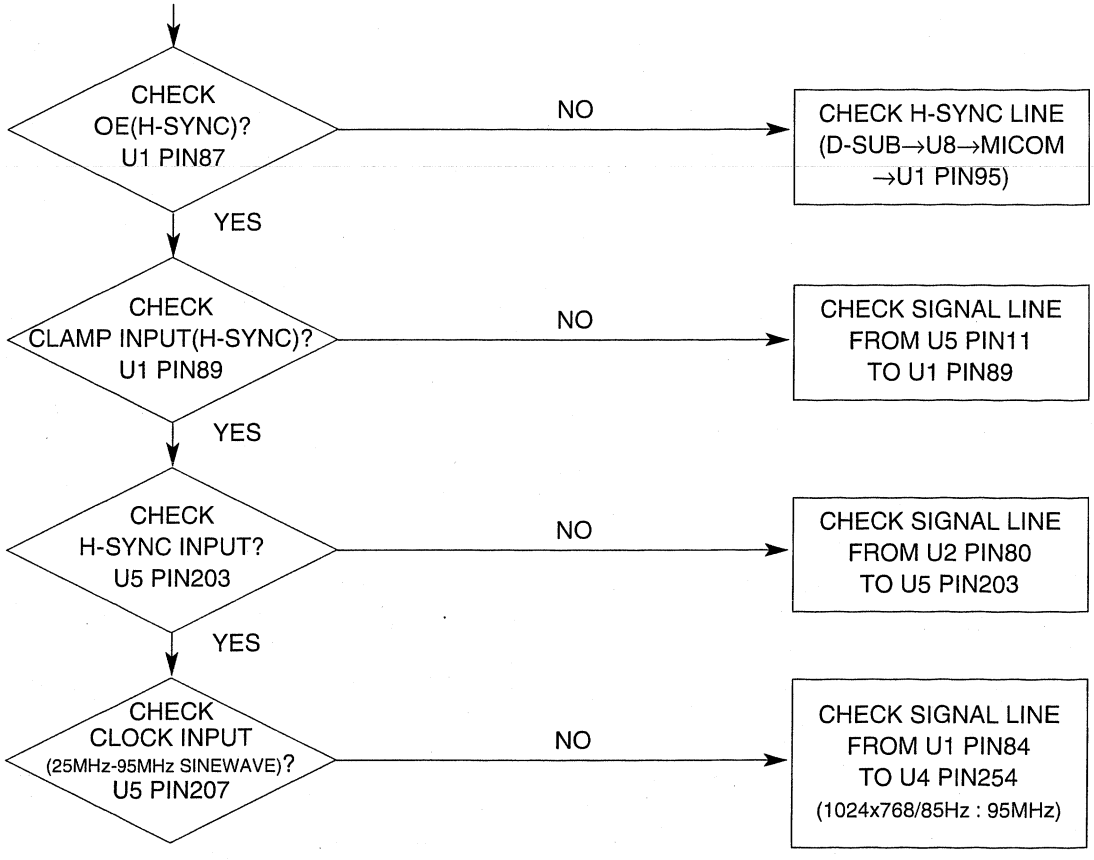
3. NO RASTER (OSD IS NOT DISPLAYED) – MX88L284



4. NO RASTER (OSD IS DISPLAYED) – TDA8752BH

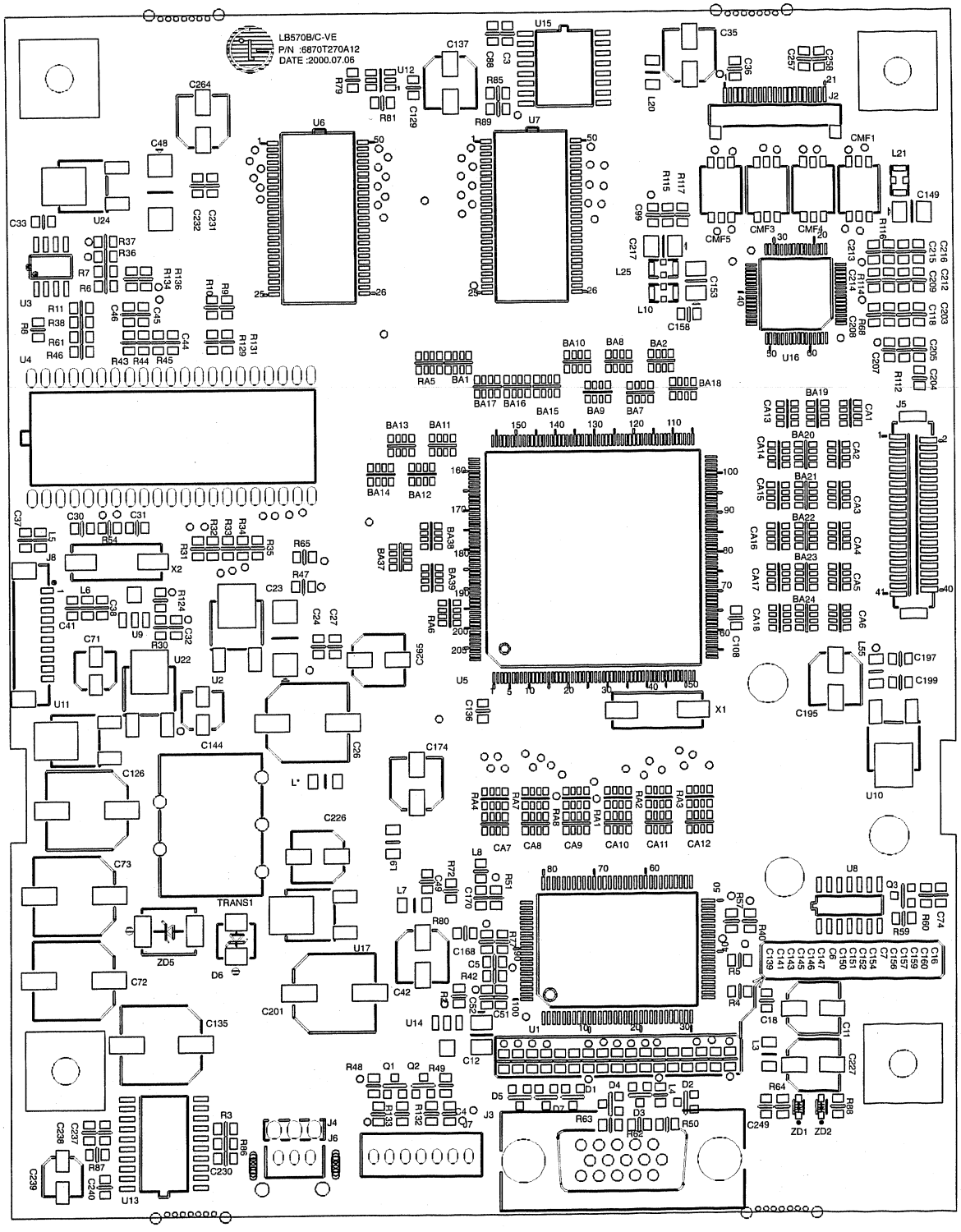


4. NO RASTER (OSD IS DISPLAYED) – TDA8752BH / MX88L284

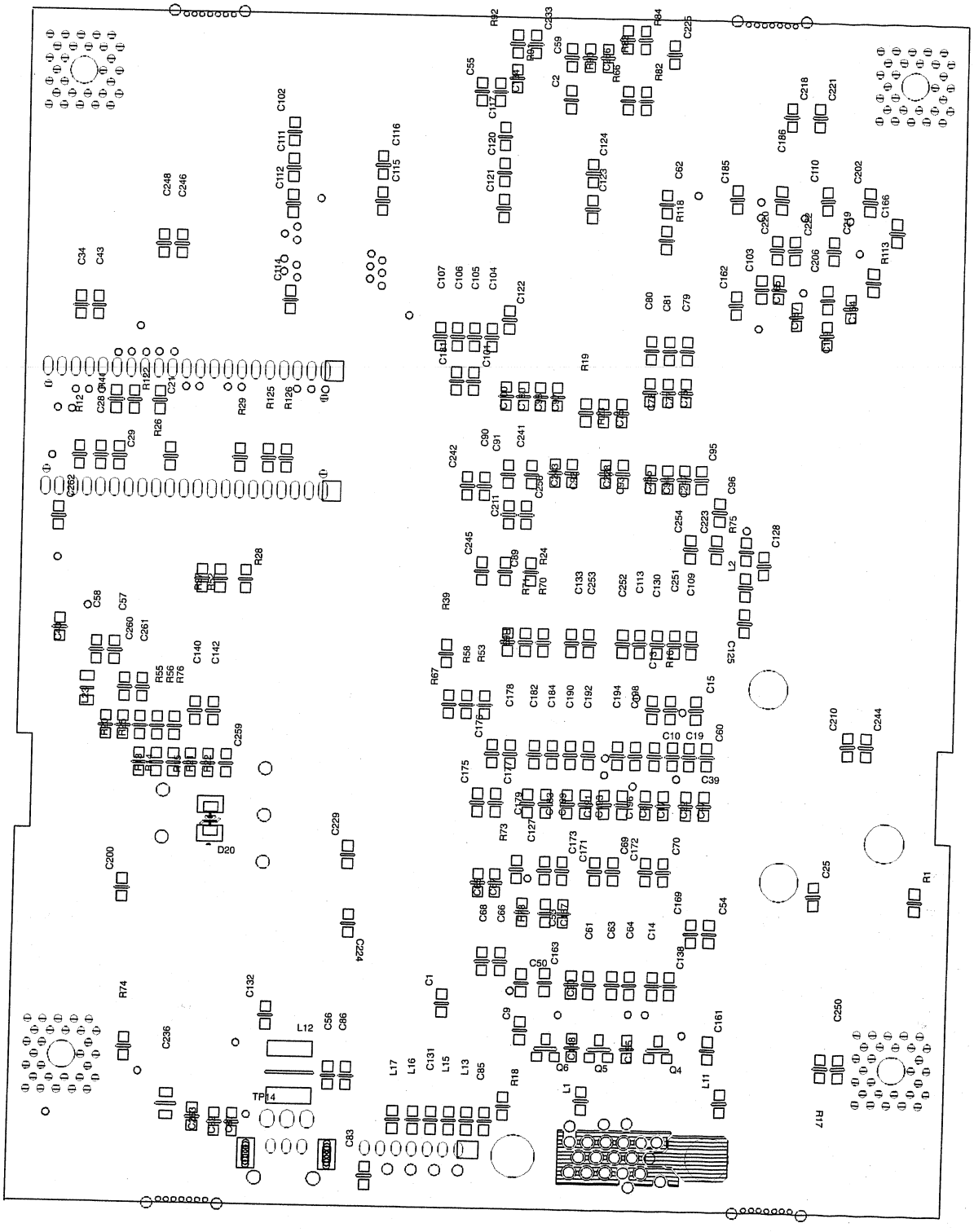


PRINTED CIRCUIT BOARD

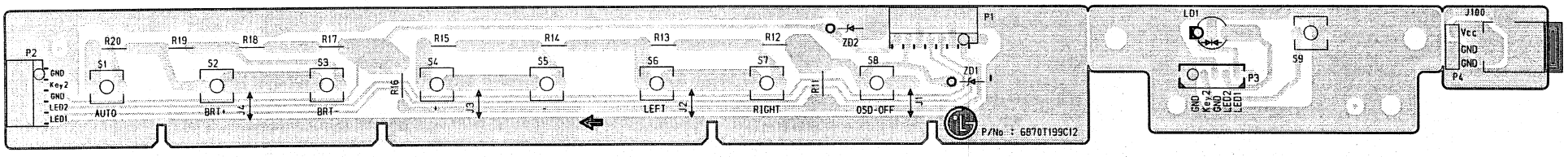
1. MAIN BOARD (Component Side)



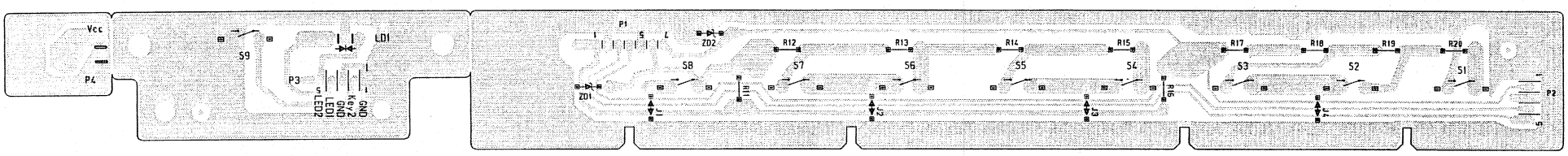
2. MAIN BOARD (Solder Side)



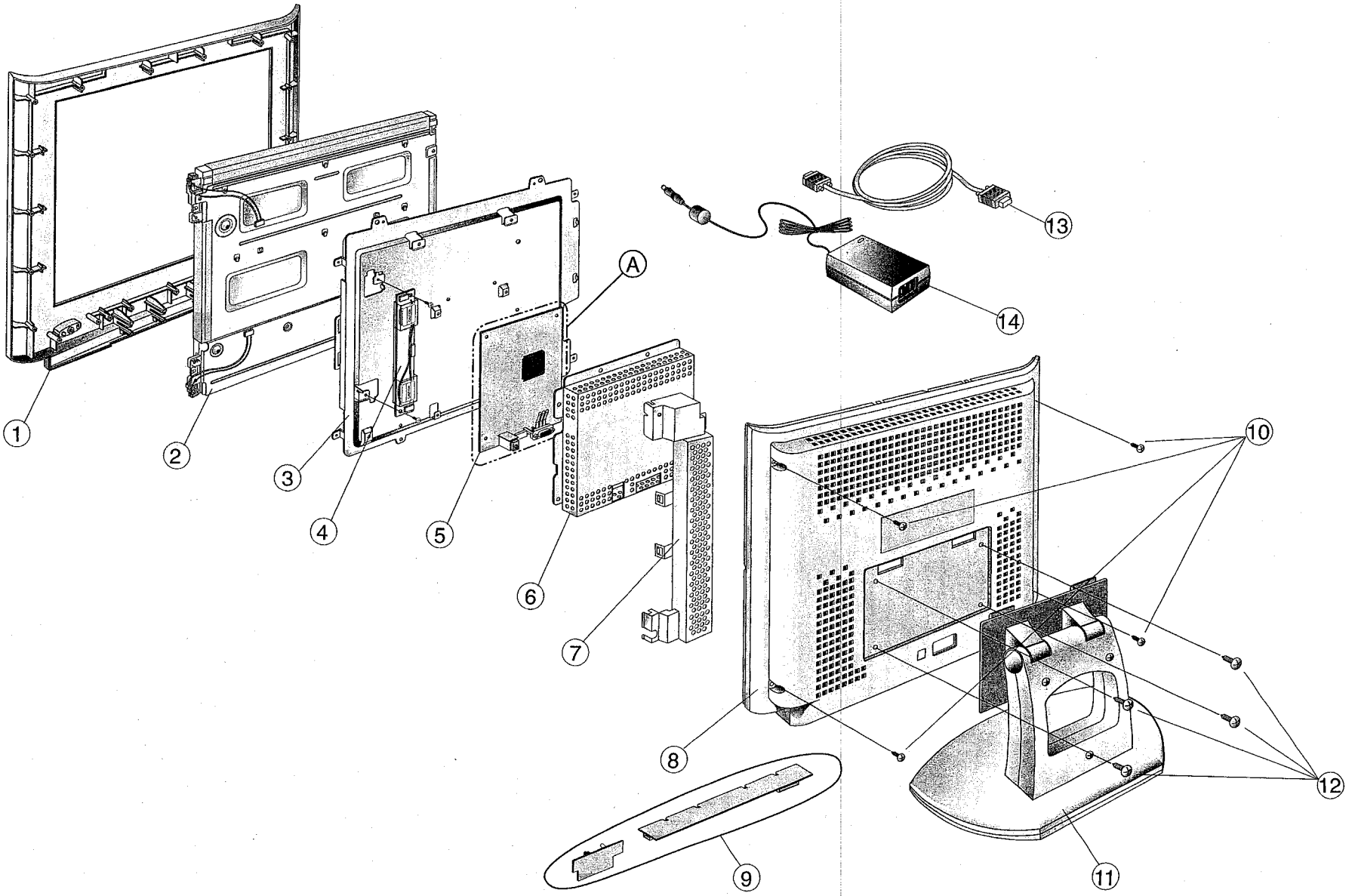
3. CONTROL BOARD (Component Side)



4. CONTROL BOARD (Solder Side)



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Material
1	3091TKL002R	CABINET ASS'Y, For StudioWorks 570LE	1	LGC ABS HF350U
	3091TKL002S	CABINET ASS'Y, For StudioWorks 570LS		
	3091TKL002Z	CABINET ASS'Y, FOR LB570BZ (No-Brand)		
2	6304TLT151F	LCD MODULE, TFT LCD LM151X1 15.1", For StudioWorks 570LE	1	
	6304TLT151H	LCD MODULE, TFT LCD LM151X2 15.1", For StudioWorks 570LS		
3	4951TKS061A	MAIN FRAME	1	
4	6632Z-1502A	INVERTER ASS'Y	1	
5	6871TMT181A	MAIN PCB ASS'Y, For StudioWorks 570LE	1	
	6871TMT182A	MAIN PCB ASS'Y, For StudioWorks 570LS		
6	4950TKK131A	MAIN SHIELD	1	
7	4815TKK012B	INVERTER SHIELD	1	
8	3809TKL002D	BACK COVER ASS'Y	1	LGC ABS HF350U
9	6871TST191A	CONTROL PCB ASS'Y	1	
10	332-095C	SCREW, PZP+3x12	4	
11	3043TKK023F	TILT SWIVEL ASS'Y	1	LGC HIPS 60HR
12	332-105F	SCREW, PVS+4x10	4	
13	6866TD9001F	SIGNAL CABLE	2	
14	6634TBZ010A	ADAPTER, AC-DC, 100~240V, 24V	1	
A	3313TL5017A	MAIN TOTAL ASS'Y, For StudioWorks 570LE	1	
	3313TL5018A	MAIN TOTAL ASS'Y, For StudioWorks 570LS		

REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS,
READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.
* NOTE : **S** SAFETY Mark ⚠
AL ALTERNATIVE PARTS

MODEL: StudioWorks 570LE/570LS — DATE: 2000. 7. 20.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
MAIN BOARD					
CAPACITORs					
		C1	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C2	0CH6330K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 33PF 50V J NP0 2012 R/TP	
		C3	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C6	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C7	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C9	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C11	0CH8107D611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 10V M 85STD (CYL) R/TP	
		C12	0CH7106G621	CAPACITOR, CHIP[TANTALUM], 10UF 20V M 3528 TP(-)	
		C13	0CH6150K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 15PF 50V J NP0 2012 R/TP	
		C14	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C15	0CH6150K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 15PF 50V J NP0 2012 R/TP	
		C16	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C18	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C20	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C21	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C24	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C25	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C26	0CH8107J611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 35V M 85STD(CYL) R/TP	
		C27	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C28	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C29	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C30	0CH6330K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 33PF 50V J NP0 2012 R/TP	
		C31	0CH6330K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 33PF 50V J NP0 2012 R/TP	
		C32	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C33	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C34	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C35	0CH8107D611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 10V M 85STD (CYL) R/TP	
		C36	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C37	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C38	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C40	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C41	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C42	0CH8107D611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 10V M 85STD (CYL) R/TP	
		C43	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C44	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C45	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C46	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C49	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C50	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C51	0CH3393K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 39000PF 50V K B 2012 R/TP	
		C52	0CH6151K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 150PF 50V J NP0 2012 R/TP	
		C53	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C54	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C55	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C56	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C57	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C58	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C59	0CH6330K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 33PF 50V J NP0 2012 R/TP	
		C61	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C62	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C63	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C64	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C65	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C66	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C67	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C68	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		C69	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C70	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C71	0CH8106J691	CAPACITOR, CHIP[AL. ELECTROLYTIC], 10UF 35V M 105STD (CYL) R/TP	
		C72	0CH8107J611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 35V M 85STD(CYL) R/TP	
		C73	0CH8107J611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 35V M 85STD(CYL) R/TP	
		C74	0CH6101K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 100PF 50V J NP0 2012 R/TP	
		C75	0CH6150K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 15PF 50V J NP0 2012 R/TP	
		C81	0CH6330K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 33PF 50V J NP0 2012 R/TP	
		C82	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C83	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C85	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C86	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C87	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C88	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C89	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C90	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C91	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C92	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C93	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C94	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C95	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C96	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C97	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C98	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C99	0CH6680K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 68PF 50V J NP0 2012 R/TP	
		C100	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C101	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C102	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C103	0CH3105F946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 1UF 16V Z F 2012 R/TP	
		C104	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C105	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C106	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C107	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C108	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C109	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C110	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C111	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C112	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C113	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C114	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C115	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C116	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C117	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C118	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C119	0CH6680K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 68PF 50V J NP0 2012 R/TP	
		C120	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C121	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C122	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C123	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C124	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C125	0CH6470K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 47PF 50V J NP0 2012 R/TP	
		C126	0CH8107J611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 35V M 85STD(CYL) R/TP	
		C127	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C128	0CH6470K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 47PF 50V J NP0 2012 R/TP	
		C129	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C130	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C131	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C132	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C133	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C134	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C135	0CH8107J611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 35V M 85STD(CYL) R/TP	
		C136	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C137	0CH8107D611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 10V M 85STD (CYL) R/TP	
		C138	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C139	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C140	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	

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		C141	0CH6152K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1500PF 50V J SL 2012 R/TP	
		C142	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C143	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C144	0CH8106J691	CAPACITOR, CHIP[AL. ELECTROLYTIC], 10UF 35V M 105STD (CYL) R/TP	
		C145	0CH3223K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 22000PF 50V K B 2012 R/TP	
		C146	0CH3472K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 4700PF 50V K B 2012 R/TP	
		C147	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C148	0CH6470K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 47PF 50V J NP0 2012 R/TP	
		C149	0CH7106F621	CAPACITOR, CHIP[TANTALUM], 10UF 16V M 3528MM TP(-)	
		C150	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C151	0CH3223K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 22000PF 50V K B 2012 R/TP	
		C152	0CH3472K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 4700PF 50V K B 2012 R/TP	
		C153	0CH7106F621	CAPACITOR, CHIP[TANTALUM], 10UF 16V M 3528MM TP(-)	
		C154	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C155	0CH6470K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 47PF 50V J NP0 2012 R/TP	
		C156	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C157	0CH3223K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 22000PF 50V K B 2012 R/TP	
		C158	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C159	0CH3472K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 4700PF 50V K B 2012 R/TP	
		C160	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C161	0CH6470K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 47PF 50V J NP0 2012 R/TP	
		C162	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C163	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C164	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C165	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C166	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C167	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C168	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C169	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C171	0CH3154K946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.15UF 50V Z F 2012 R/TP	
		C172	0CH3154K946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.15UF 50V Z F 2012 R/TP	
		C173	0CH3154K946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.15UF 50V Z F 2012 R/TP	
		C174	0CH8107D611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 10V M 85STD (CYL) R/TP	
		C180	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C181	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C185	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C186	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C187	0CH3105F946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 1UF 16V Z F 2012 R/TP	
		C200	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C201	0CH8107J611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 35V M 85STD(CYL) R/TP	
		C202	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C203	0CH3105F946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 1UF 16V Z F 2012 R/TP	
		C204	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C205	0CH3105F946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 1UF 16V Z F 2012 R/TP	
		C206	0CH6680K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 68PF 50V J NP0 2012 R/TP	
		C207	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C208	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C209	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C211	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C212	0CH3105F946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 1UF 16V Z F 2012 R/TP	
		C213	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C214	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C215	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C216	0CH3105F946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 1UF 16V Z F 2012 R/TP	
		C217	0CH7106F621	CAPACITOR, CHIP[TANTALUM], 10UF 16V M 3528MM TP(-)	
		C218	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C219	0CH3105F946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 1UF 16V Z F 2012 R/TP	
		C220	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C221	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C222	0CH3105F946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 1UF 16V Z F 2012 R/TP	
		C223	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C224	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C225	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C226	0CH8107D611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 10V M 85STD (CYL) R/TP	
		C227	0CH8107D611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 10V M 85STD (CYL) R/TP	
		C228	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		C229	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C230	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C231	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C232	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C233	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C236	0CH3224K944	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.22UF 50V Z F 3216 R/TP	
		C237	0CH6221K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 220PF 50V J NP0 2012 R/TP	
		C238	0CH3223K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 22000PF 50V K B 2012 R/TP	
		C239	0CH8105K611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 1UF 50V M 85STD(CYL) R/TP	
		C240	0CH3563K946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 56000PF 50V Z F 2012 R/TP	
		C241	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C242	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C243	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C245	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C246	0CH6680K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 68PF 50V J NP0 2012 R/TP	
		C247	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C248	0CH6680K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 68PF 50V J NP0 2012 R/TP	
		C250	0CH6101K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 100PF 50V J NP0 2012 R/TP	
		C251	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C252	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C253	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C254	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C255	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C256	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C259	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C260	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C261	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C262	0CH3105F946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 1UF 16V Z F 2012 R/TP	
		C263	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C264	0CZZTAT002B	CAPACITOR, SVP SANYO 10V 47UF M REEL OS-CON	
		C265	0CH8107D611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 10V M 85STD (CYL) R/TP	
	DIODEs				
		D1	0DS226009AA	DIODE, SWITCHING, KDS226 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D2	0DS226009AA	DIODE, SWITCHING, KDS226 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D3	0DS226009AA	DIODE, SWITCHING, KDS226 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D4	0DS226009AA	DIODE, SWITCHING, KDS226 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D5	0DS226009AA	DIODE, SWITCHING, KDS226 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D6	0DR130309BA	DIODE, RECTIFIER, MBRS130T3 TP MOTOROLA 403A-01 30V 1A 40A	
		D7	0DS226009AA	DIODE, SWITCHING, KDS226 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D20	0DR053019AA	DIODE, RECTIFIER, MBR0530T1 TP MOTOROLA SOD123 30V 0.5A 5.5A	
		ZD1	0DZ560009DA	DIODE, ZENER, UDZ S 5.6B TP ROHM-K SOD323 200MW 5.6V 5MA .PF	
		ZD2	0DZ560009DA	DIODE, ZENER, UDZ S 5.6B TP ROHM-K SOD323 200MW 5.6V 5MA .PF	
		ZD5	0DR340009AA	DIODE, RECTIFIER, MBRS340 TP FAIRCHILD NON 40V 3A 80A .SEC 2MA	
	ICs				
		U1	0IPH875280D	IC, PHILIPS, TDA8752BH/8 100PQFP BK 110MHZ TRIPLE A-D CONVERTER	
		U2	0IRH033200A	IC, ROHM, BA033FP-E2 MOLD-3 TP REGULATOR	
		U3	0IMP240800A	IC, MICRO CHIP TECHNOLOGY, 24LC08BT/SN 8P SOIC TP EEPROM	
		U4	0IZZTSZ085A	IC[HYBRID], MC68HC08BD48 42PIN,SDIP BK MCU(BD48) FLASH ROM	
		U5	0IMR882840A	IC, MACRONIX, MX88L284 208PQFP BK XGA RGB CONTROLL IC	
		U6	0ICX636165A	IC, ETRON, EM636165TS-8 1MEGA X 16 SDRAM 125MHZ	
		U7	0ICX636165A	IC, ETRON, EM636165TS-8 1MEGA X 16 SDRAM 125MHZ	
		U8	0IMO741420B	IC, MOTOROLA, MC74HCT14ADR2 14P,SOIC TP LEVEL CONVERTER	
		U9	0IKE704200J	IC, KEC, KIA7042AF SOT-89 TP 4.2V VOLTAGE DETECTOR	
		U11	0ISS781200J	IC, SAMSUNG ELECTRONICS, KA78M12R 3P,D-PAK TP VOL. REGULATOR	
		U12	0TF632509AA	FET, FDC6325L TP FAIRCHILD 8V 2.4A SMT6	
		U13	0ISG497351A	IC, SGS-THOMSON, L4973D5.1 SO20 TP 3.5A S/DOWN S/W REGULATOR	
		U14	0IKE431000D	IC, KEC, KIA431AF SOT-89 TP PROGRAMMABLE PRECISION REFERENC	
		U15	0IMO459000A	IC, MOTOROLA, LSC4590DWB [LMOSD] 16P,SOIC TP OSD IC HP	
		U16	0IS5100000B	IC, SILICON IMAGE, SIL100 64P,TQFP TP ES3.51 TRANSMITTER	
		U17	0ISS780500H	IC, SAMSUNG ELECTRONICS, KA78M05-R 3P,D-PAK TP 5V 0.5A REGUL	
		U22	0ISS780500H	IC, SAMSUNG ELECTRONICS, KA78M05-R 3P,D-PAK TP 5V 0.5A REGUL	
		U24	0IRH033200A	IC, ROHM, BA033FP-E2 MOLD-3 TP REGULATOR	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
COILs & COREs					
		L1	6210TCE001E	CORE (CIRC), BEAD, HB-1M2012-800JT CERATEC 2012MM R/TP	
		L2	6210TCE001P	CORE (CIRC), BEAD, HB-1S2012-121JT CERATECH 2012MM R/TP	
		L3	6210TCE001C	CORE (CIRC), BEAD, HB-1T3216-500JT CERATEC 3216MM CHIP-BEAD	
		L4	6210TCE001E	CORE (CIRC), BEAD, HB-1M2012-800JT CERATEC 2012MM R/TP	
		L5	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L6	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L7	6210TCE001C	CORE (CIRC), BEAD, HB-1T3216-500JT CERATEC 3216MM CHIP-BEAD	
		L8	6210TCE001P	CORE (CIRC), BEAD, HB-1S2012-121JT CERATECH 2012MM R/TP	
		L9	6210TCE001C	CORE (CIRC), BEAD, HB-1T3216-500JT CERATEC 3216MM CHIP-BEAD	
		L10	6200TEZ007A	FILTER(CIRC), CAPACITOR, STC-B SERIES(104B) NIIGATA(FILMAC)	
		L11	6210TCE001E	CORE (CIRC), BEAD, HB-1M2012-800JT CERATEC 2012MM R/TP	
		L12	6210TCT002C	CORE (CIRC), BEAD, HF50ACC575018-T TDK ,MM CHIP BEAD,LCD	
		L13	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L15	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L16	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L17	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L20	6210TCE001G	CORE (CIRC), BEAD, HH-1M3216-501 CERATEC 3216MM R/TP	
		L21	6200TEZ007A	FILTER(CIRC), CAPACITOR, STC-B SERIES(104B) NIIGATA(FILMAC)	
		L23	6210TCE001G	CORE (CIRC), BEAD, HH-1M3216-501 CERATEC 3216MM R/TP	
		L25	6200TEZ007A	FILTER(CIRC), CAPACITOR, STC-B SERIES(104B) NIIGATA(FILMAC)	
TRANSISTORs					
		Q1	0TR162309CA	TRANSISTOR, KSC1623 TP SAMSUNG SOT23 NPN EPI. SILICON TR	
		Q2	0TR162309CA	TRANSISTOR, KSC1623 TP SAMSUNG SOT23 NPN EPI. SILICON TR	
		Q3	0TR162309CA	TRANSISTOR, KSC1623 TP SAMSUNG SOT23 NPN EPI. SILICON TR	
RESISTORs					
		R1	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R2	0RH2201D622	RESISTOR, CHIP, 2.2K 1/10W P-TYPE TAPPING	
		R3	0RH3602D622	RESISTOR, CHIP, 36K 1/10W 5 D.R/TP	
		R4	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R5	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R6	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R7	0RH1501D622	RESISTOR, CHIP, 1.5K 1/10W 5 D.R/TP	
		R8	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R9	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R10	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R11	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R12	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R13	0RH1201D622	RESISTOR, CHIP, 1.2K 1/10W 5 D.R/TP	
		R14	0RH1201D622	RESISTOR, CHIP, 1.2K 1/10W 5 D.R/TP	
		R15	0RH1201D622	RESISTOR, CHIP, 1.2K 1/10W 5 D.R/TP	
		R16	0RH1004D622	RESISTOR, CHIP, 1.0M 1/10W 5 D.R/TP	
		R17	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R18	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R19	0RH0472D622	RESISTOR, CHIP, 47 1/10W 5 D.R/TP	
		R20	0RH1201D622	RESISTOR, CHIP, 1.2K 1/10W 5 D.R/TP	
		R21	0RH1201D622	RESISTOR, CHIP, 1.2K 1/10W 5 D.R/TP	
		R22	0RH1201D622	RESISTOR, CHIP, 1.2K 1/10W 5 D.R/TP	
		R23	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R24	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R25	0RH1201D622	RESISTOR, CHIP, 1.2K 1/10W 5 D.R/TP	
		R27	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R28	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R29	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R30	0RH3302D622	RESISTOR, CHIP, 33K 1/10W 5 D.R/TP	
		R31	0RH1003D622	RESISTOR, CHIP, 100K 1/10W 5 D.R/TP	
		R32	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R33	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R34	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R35	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R36	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		R37	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R38	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R39	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R40	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R41	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R42	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R43	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R44	0RH7502D622	RESISTOR, CHIP, 75K 1/10W 5 D.R/TP	
		R45	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R46	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R47	0RH0000D622	RESISTOR, CHIP, 0 1/10W P-TYPE TAPPING	
		R48	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R49	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R50	0RH0752D622	RESISTOR, CHIP, 75 1/10W 5 D.R/TP	
		R51	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R52	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R53	0RH0000D622	RESISTOR, CHIP, 0 1/10W P-TYPE TAPPING	
		R54	0RH1004D622	RESISTOR, CHIP, 1.0M 1/10W 5 D.R/TP	
		R55	0RH1201D622	RESISTOR, CHIP, 1.2K 1/10W 5 D.R/TP	
		R56	0RH1201D622	RESISTOR, CHIP, 1.2K 1/10W 5 D.R/TP	
		R57	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R58	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R59	0RH4702D622	RESISTOR, CHIP, 47K 1/10W 5 D.R/TP	
		R60	0RH2702D622	RESISTOR, CHIP, 27K 1/10W 5 D.R/TP	
		R61	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R62	0RH0752D622	RESISTOR, CHIP, 75 1/10W 5 D.R/TP	
		R63	0RH0752D622	RESISTOR, CHIP, 75 1/10W 5 D.R/TP	
		R64	0RH5601D622	RESISTOR, CHIP, 5.6K 1/10W 5 D.R/TP	
		R65	0RH0000D622	RESISTOR, CHIP, 0 1/10W P-TYPE TAPPING	
		R66	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R67	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R68	0RH2702D622	RESISTOR, CHIP, 27K 1/10W 5 D.R/TP	
		R69	0RH0000D622	RESISTOR, CHIP, 0 1/10W P-TYPE TAPPING	
		R70	0RH0000D622	RESISTOR, CHIP, 0 1/10W P-TYPE TAPPING	
		R71	0RH0000D622	RESISTOR, CHIP, 0 1/10W P-TYPE TAPPING	
		R73	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R74	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R75	0RH0332D622	RESISTOR, CHIP, 33 1/10W 5 D.R/TP	
		R76	0RH1201D622	RESISTOR, CHIP, 1.2K 1/10W 5 D.R/TP	
		R77	0RH2702D622	RESISTOR, CHIP, 27K 1/10W 5 D.R/TP	
		R78	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R79	0RH2202D622	RESISTOR, CHIP, 22K 1/10W 5 D.R/TP	
		R80	0RH0000D622	RESISTOR, CHIP, 0 1/10W P-TYPE TAPPING	
		R81	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R82	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R83	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R84	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R85	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R86	0RH3602D622	RESISTOR, CHIP, 36K 1/10W 5 D.R/TP	
		R87	0RH9101D622	RESISTOR, CHIP, 9.1K 1/10W 5 D.R/TP	
		R88	0RH0472D622	RESISTOR, CHIP, 47 1/10W 5 D.R/TP	
		R89	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R90	0RH0472D622	RESISTOR, CHIP, 47 1/10W 5 D.R/TP	
		R91	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R92	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R112	0RH2702D622	RESISTOR, CHIP, 27K 1/10W 5 D.R/TP	
		R114	0RH2702D622	RESISTOR, CHIP, 27K 1/10W 5 D.R/TP	
		R115	0RH2702D622	RESISTOR, CHIP, 27K 1/10W 5 D.R/TP	
		R116	0RH2702D622	RESISTOR, CHIP, 27K 1/10W 5 D.R/TP	
		R117	0RH6800D622	RESISTOR, CHIP, 680 OHM 1 / 10 W 5% D R/TP	
		R118	0RH2702D622	RESISTOR, CHIP, 27K 1/10W 5 D.R/TP	
		R122	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R124	0RH0000D622	RESISTOR, CHIP, 0 1/10W P-TYPE TAPPING	
		R125	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R126	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R129	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	

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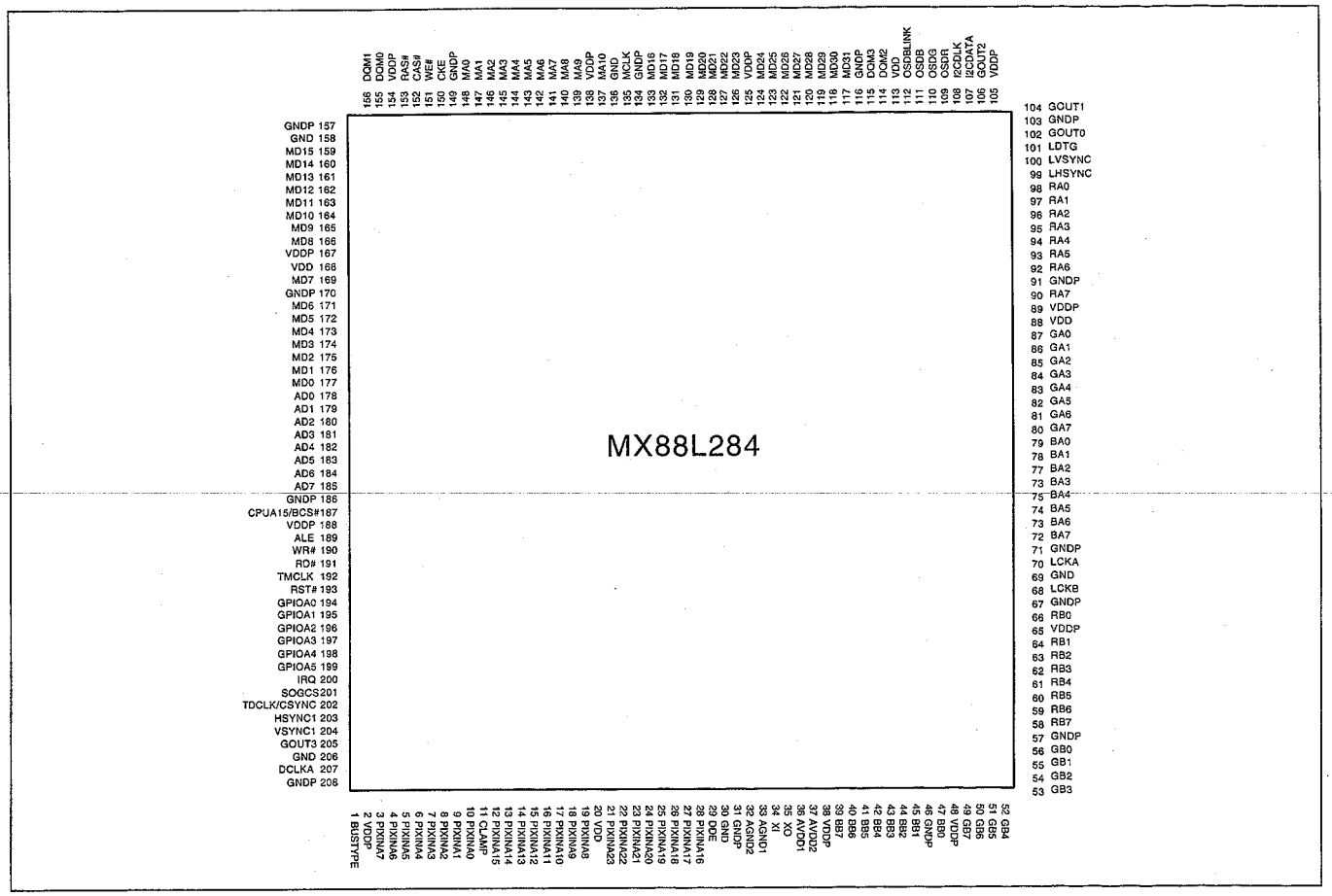
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		R131	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R132	0RH2700D622	RESISTOR, CHIP, 270 1/10W 5 D.R/TP	
		R133	0RH2700D622	RESISTOR, CHIP, 270 1/10W 5 D.R/TP	
		R134	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R136	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		RA1	0RHZTCZ001C	RESISTOR, CHIP, 220 OHM 1/16 W 5% 3215 R/TP CHIP ARRAY	
		RA2	0RHZTCZ001C	RESISTOR, CHIP, 220 OHM 1/16 W 5% 3215 R/TP CHIP ARRAY	
		RA3	0RHZTCZ001C	RESISTOR, CHIP, 220 OHM 1/16 W 5% 3215 R/TP CHIP ARRAY	
		RA4	0RHZTCZ001C	RESISTOR, CHIP, 220 OHM 1/16 W 5% 3215 R/TP CHIP ARRAY	
		RA5	6210TCE002C	CORE (CIRC), BEAD, HB-4T3216-201JT CERATECH 3216MM R/TP	
		RA6	6210TCE002C	CORE (CIRC), BEAD, HB-4T3216-201JT CERATECH 3216MM R/TP	
		RA7	0RHZTCZ001C	RESISTOR, CHIP, 220 OHM 1/16 W 5% 3215 R/TP CHIP ARRAY	
		RA8	0RHZTCZ001C	RESISTOR, CHIP, 220 OHM 1/16 W 5% 3215 R/TP CHIP ARRAY	
	OTHERs				
		X1	6202TST001A	CRYSTAL, SX-1 SUNNY ,SMS, 14.31818MHZ ,30PPM, 18PF, TP	
		X2	6202TST001E	CRYSTAL, SX-1 SUNNY CHIP 24MHZ 30PPM 20PF BK	
		TRANS1	6170TMZ090A	TRANSFORMER, SMPS, EPC17 47 UH V-10PIN LB575B SC/NY .	
	CONTROL BOARD				
		J100	6612TAH002A	JACK,AC/DC POWER, DC-001 UNITOP DC-001 2.0MM (UNITOP)	
		LD1	0DL571300AA	LED, "SPR571MVW3 TP ROHM GREEN/RED ""10,10MCD"""	
		R11	0RD4701Q509	RESISTOR, FIXED CARBON FILM, 4.7K OHM 1/4 W (3.4) 2% TA52	
		R12	0RD6800Q509	RESISTOR, FIXED CARBON FILM, 680 OHM 1/4 W (3.4) 2% TA52	
		R13	0RD8200Q509	RESISTOR, FIXED CARBON FILM, 820 OHM 1/4 W(3.4) 2% TA52	
		R14	0RD1101Q509	RESISTOR, FIXED CARBON FILM, 1.1K OHM 1/4 W(3.4) 2% TA52	
		R15	0RD1801Q509	RESISTOR, FIXED CARBON FILM, 1.8K OHM 1/4 W (3.4) 2% TA52	
		R16	0RD4701Q509	RESISTOR, FIXED CARBON FILM, 4.7K OHM 1/4 W (3.4) 2% TA52	
		R17	0RD6800Q509	RESISTOR, FIXED CARBON FILM, 680 OHM 1/4 W (3.4) 2% TA52	
		R18	0RD8200Q509	RESISTOR, FIXED CARBON FILM, 820 OHM 1/4 W(3.4) 2% TA52	
		R19	0RD1101Q509	RESISTOR, FIXED CARBON FILM, 1.1K OHM 1/4 W(3.4) 2% TA52	
		R20	0RD1801Q509	RESISTOR, FIXED CARBON FILM, 1.8K OHM 1/4 W (3.4) 2% TA52	
		S1	140-058E	SWITCH,TACT, SKHV10910B LGEC NON 12V 20A HORIZENTAL 160G	
		S2	140-058E	SWITCH,TACT, SKHV10910B LGEC NON 12V 20A HORIZENTAL 160G	
		S3	140-058E	SWITCH,TACT, SKHV10910B LGEC NON 12V 20A HORIZENTAL 160G	
		S4	140-058E	SWITCH,TACT, SKHV10910B LGEC NON 12V 20A HORIZENTAL 160G	
		S5	140-058E	SWITCH,TACT, SKHV10910B LGEC NON 12V 20A HORIZENTAL 160G	
		S6	140-058E	SWITCH,TACT, SKHV10910B LGEC NON 12V 20A HORIZENTAL 160G	
		S7	140-058E	SWITCH,TACT, SKHV10910B LGEC NON 12V 20A HORIZENTAL 160G	
		S8	140-058E	SWITCH,TACT, SKHV10910B LGEC NON 12V 20A HORIZENTAL 160G	
		S9	140-058E	SWITCH,TACT, SKHV10910B LGEC NON 12V 20A HORIZENTAL 160G	
		ZD1	0DZ560009CE	DIODE, ZENER, MTZJ5.6B TP ROHM-K DO34 500MW 5.6V 5MA 26MM	
		ZD2	0DZ560009CE	DIODE, ZENER, MTZJ5.6B TP ROHM-K DO34 500MW 5.6V 5MA 26MM	
	570LS (6BIT) ONLY				
		C195	0CH8107F611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 16V M 85STD(CYL) R/TP	
		C197	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C210	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C244	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		U10	0IRH033200A	IC, ROHM, BA033FP-E2 MOLD-3 TP REGULATOR	
	MISCELLANEOUS				
⚠		LCD	6304TLT151F	LCD, "LGE TFT LCD LM151X1-C2MN 15.1" For StudioWorks 570LE	
⚠		LCD	6304TLT151H	LCD, "LGE TFT LCD LM151X2-C2MN 15.1" For StudioWorks 570LS	
⚠		P/CORD	6410TEW003C	POWER CORD, SP023+IS14 I-SHENG VDE/SEMKO 1870MM WALL 85964	
⚠		INVERTER	6632Z-1502A	INVERTER, "NMC1502 15.1"" (CHOI JEONG GYU)"	
⚠		ADAPTER	6634TBZ010A	ADAPTER,AC-DC, "ADP-36SB DELTA 100-240V 24V 1.5A 36W FOR 15.1"	
⚠		S/CABLE	6866TD9001F	SIGNAL CABLE, UL 2990-9C(7.5) DT 1870MM GRAY(85964) LB500 DM	

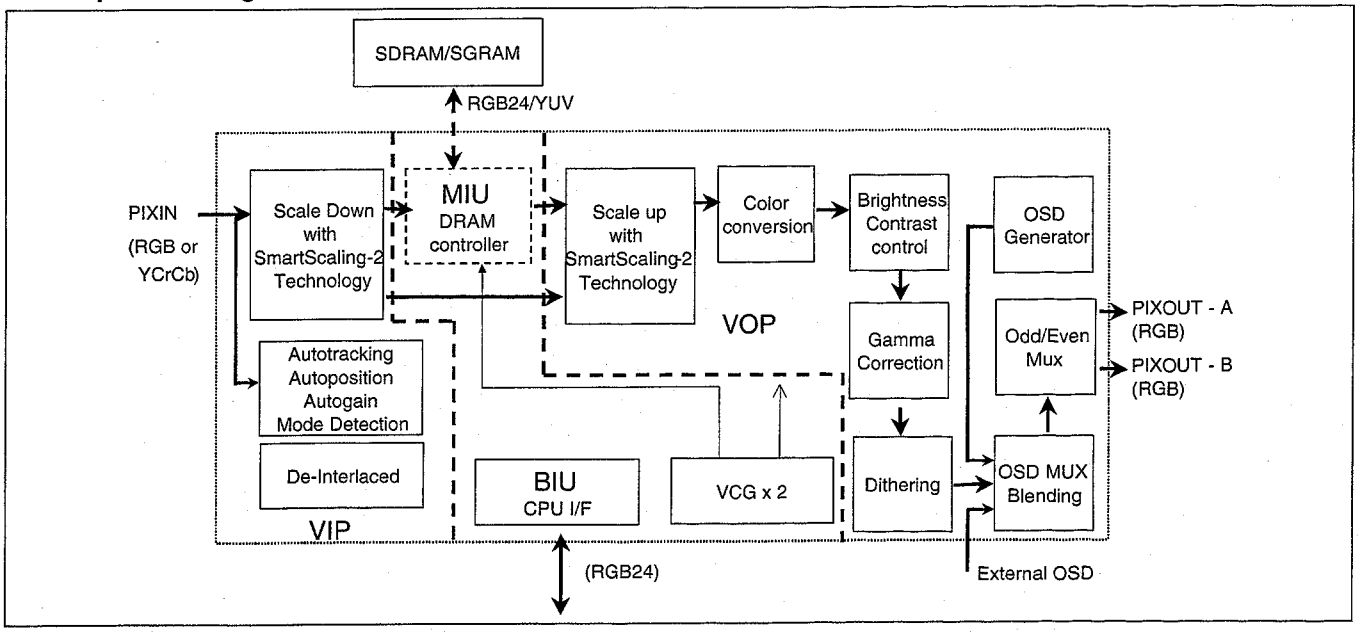
PIN CONFIGURATION

MX88L284

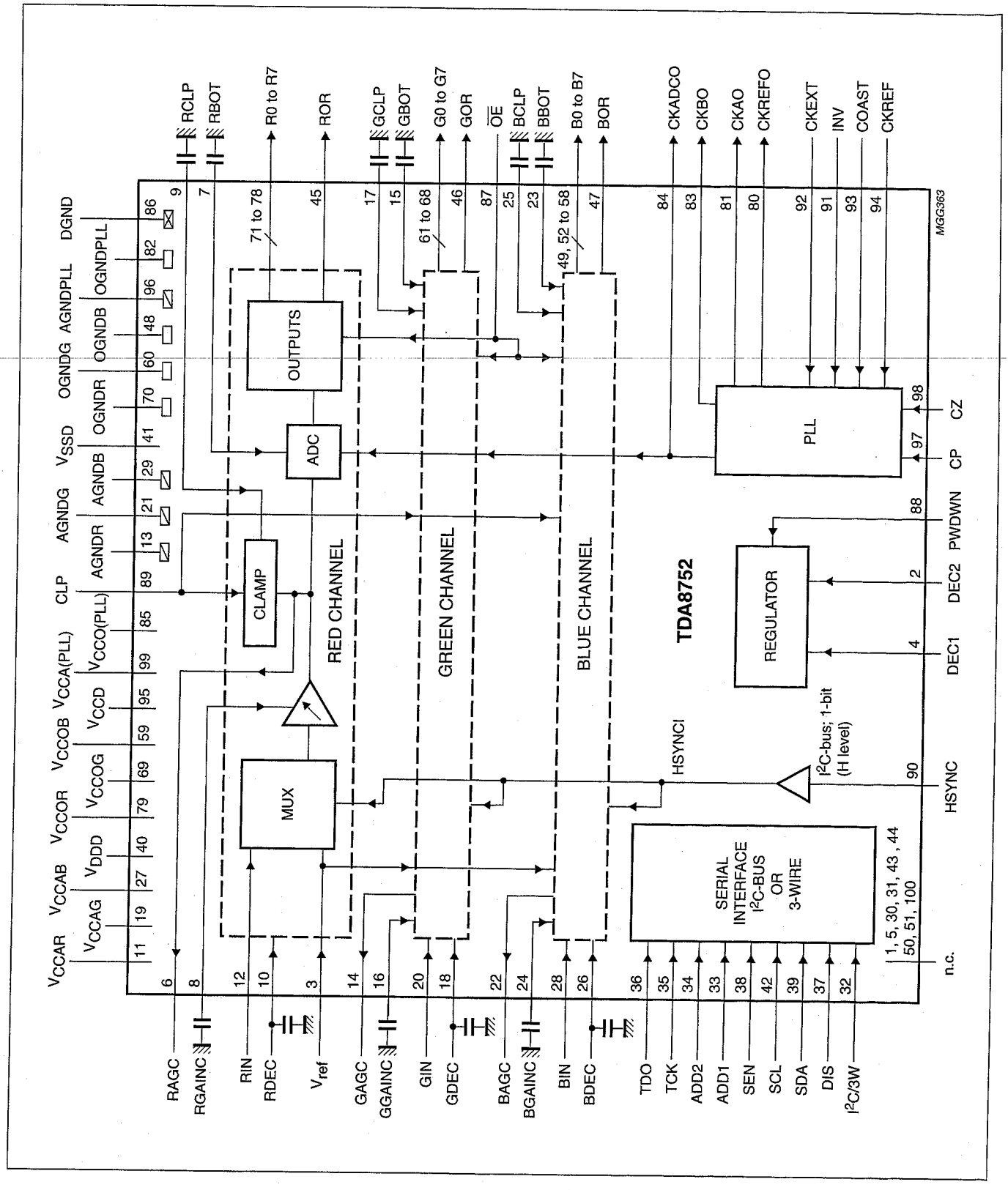
Pin Configurations



Chip Block Diagram



Block Diagram

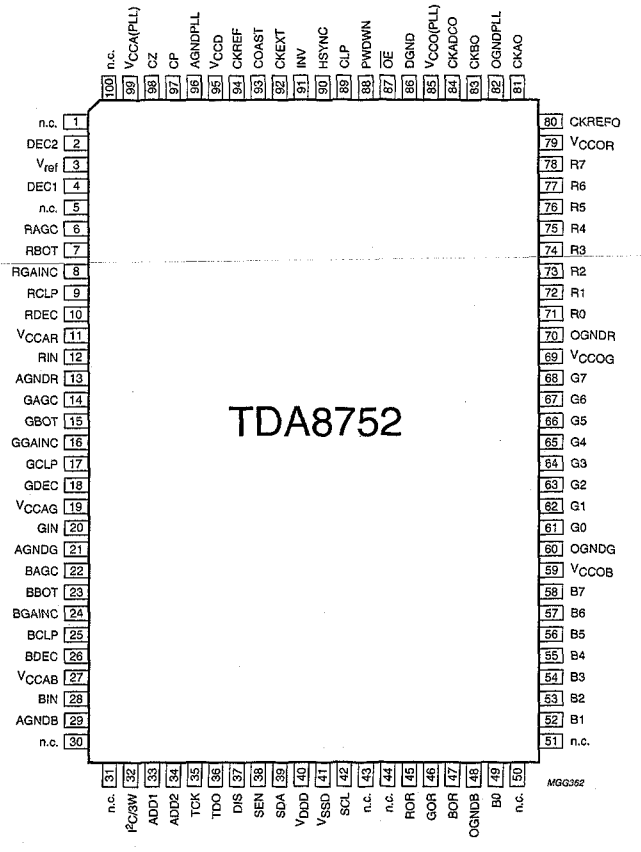


PIN	SYMBOL	DESCRIPTION
1	n.c.	not connected
2	DEC2	main regulator decoupling input
3	V_{ref}	gain stabilizer voltage reference input
4	DEC1	main regulator decoupling input
5	n.c.	not connected
6	RAGC	red channel AGC output
7	RBOT	red channel ladder decoupling input (BOT)
8	RGAINC	red channel gain capacitor input
9	RCLP	red channel gain clamp capacitor input
10	RDEC	red channel gain regulator decoupling input
11	V_{CCAR}	red channel gain analog power supply
12	RIN	red channel gain analog input
13	AGNDR	red channel gain analog ground
14	GAGC	green channel AGC output
15	GBOT	green channel ladder decoupling input (BOT)
16	GGAINC	green channel gain capacitor input
17	GCLP	green channel gain clamp capacitor input
18	GDEC	green channel gain regulator decoupling input
19	V_{CCAG}	green channel gain analog power supply
20	GIN	green channel gain analog input
21	AGNDG	green channel gain analog ground
22	BAGC	blue channel AGC output
23	BBOT	blue channel ladder decoupling input (BOT)
24	BGAINC	blue channel gain capacitor input
25	BCLP	blue channel gain clamp capacitor input
26	BDEC	blue channel gain regulator decoupling input
27	V_{CCAB}	blue channel gain analog power supply
28	BIN	blue channel gain analog input
29	AGNDB	blue channel gain analog ground
30	n.c.	not connected
31	n.c.	not connected
32	$I^2C/3W$	selection input between I^2C-bus (active HIGH) and 3-wire serial bus (active LOW)
33	ADD1	I^2C-bus address control input 1
34	ADD2	I^2C-bus address control input 2
35	TCK	scan test mode (active HIGH)

PIN	SYMBOL	DESCRIPTION
36	TDO	scan test output
37	DIS	I^2C and 3W disable control input
38	SEN	select enable for 3-wire serial bus input
39	SDA	$I^2C/3W$ serial data input
40	V_{DDD}	logic $I^2C/3W$ digital power supply
41	V_{SSD}	logic $I^2C/3W$ digital ground
42	SCL	$I^2C/3W$ serial clock input
43	n.c.	not connected
44	n.c.	not connected
45	ROR	red channel ADC output bit out of range
46	GOR	green channel ADC output bit out of range
47	BOR	blue channel ADC output bit out of range
48	OGNDB	blue channel ADC output ground
49	B0	blue channel ADC output bit 0 (LSB)
50	n.c.	not connected
51	n.c.	not connected
52	B1	blue channel ADC output bit 1
53	B2	blue channel ADC output bit 2
54	B3	blue channel ADC output bit 3
55	B4	blue channel ADC output bit 4
56	B5	blue channel ADC output bit 5
57	B6	blue channel ADC output bit 6
58	B7	blue channel ADC output bit 7 (MSB)
59	V_{CCOB}	blue channel ADC output power supply
60	OGNDG	green channel ADC output ground
61	G0	green channel ADC output bit 0 (LSB)
62	G1	green channel ADC output bit 1
63	G2	green channel ADC output bit 2
64	G3	green channel ADC output bit 3
65	G4	green channel ADC output bit 4
66	G5	green channel ADC output bit 5
67	G6	green channel ADC output bit 6
68	G7	green channel ADC output bit 7 (MSB)
69	V_{CCOG}	green channel ADC output power supply
70	OGNDR	red channel ADC output ground
71	R0	red channel ADC output bit 0 (LSB)

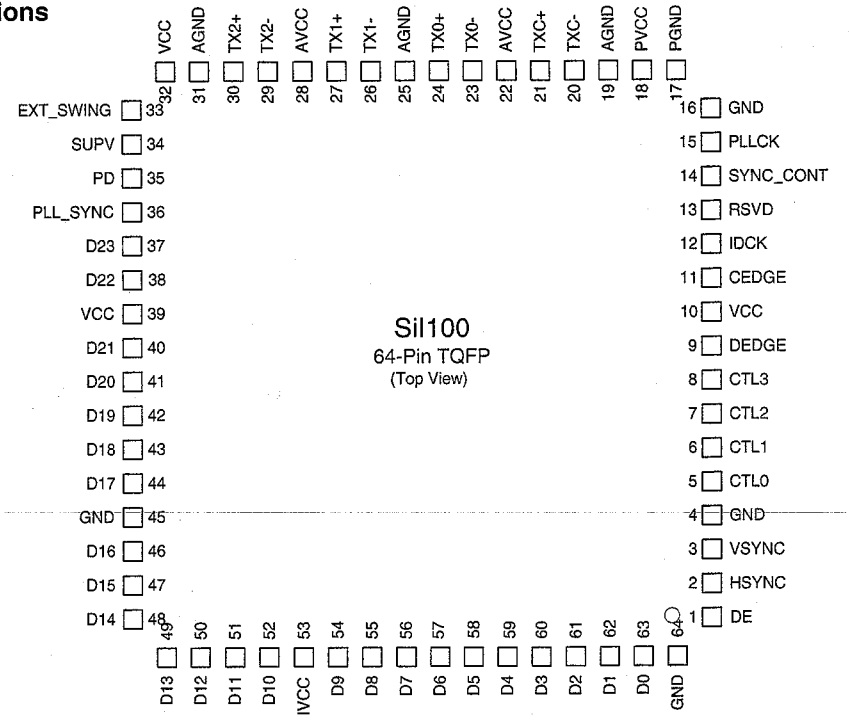
Pin Description

PIN	SYMBOL	DESCRIPTION
72	R1	red channel ADC output bit 1
73	R2	red channel ADC output bit 2
74	R3	red channel ADC output bit 3
75	R4	red channel ADC output bit 4
76	R5	red channel ADC output bit 5
77	R6	red channel ADC output bit 6
78	R7	red channel ADC output bit 7 (MSB)
79	V_{CCOR}	red channel ADC output power supply
80	CKREFO	reference output clock resynchronized horizontal pulse
81	CKAO	PLL clock output 3 (in phase with reference output clock)
82	OGNDPLL	PLL digital ground
83	CKBO	PLL clock output 2
84	CKADCO	PLL clock output 1 (in phase with internal ADC clock)
85	$V_{CCO(PLL)}$	PLL output power supply
86	DGND	digital ground
87	$\overline{OE}$	output enable not (when $\overline{OE}$ is HIGH, the outputs are in high-impedance)
88	PWDWN	power-down control input (IC is in power-down mode when this pin is HIGH)
89	CLP	clamp pulse input (clamp active HIGH)
90	HSYNC	horizontal synchronization input pulse
91	INV	PLL clock output inverter command input (invert when HIGH)
92	CKEXT	external clock input
93	COAST	PLL coast command input
94	CKREF	PLL reference clock input
95	V_{CCD}	digital power supply
96	AGNDPLL	PLL analog ground
97	CP	PLL filter input
98	CZ	PLL filter input
99	V_{CCAPLL}	PLL analog power supply
100	n.c.	not connected

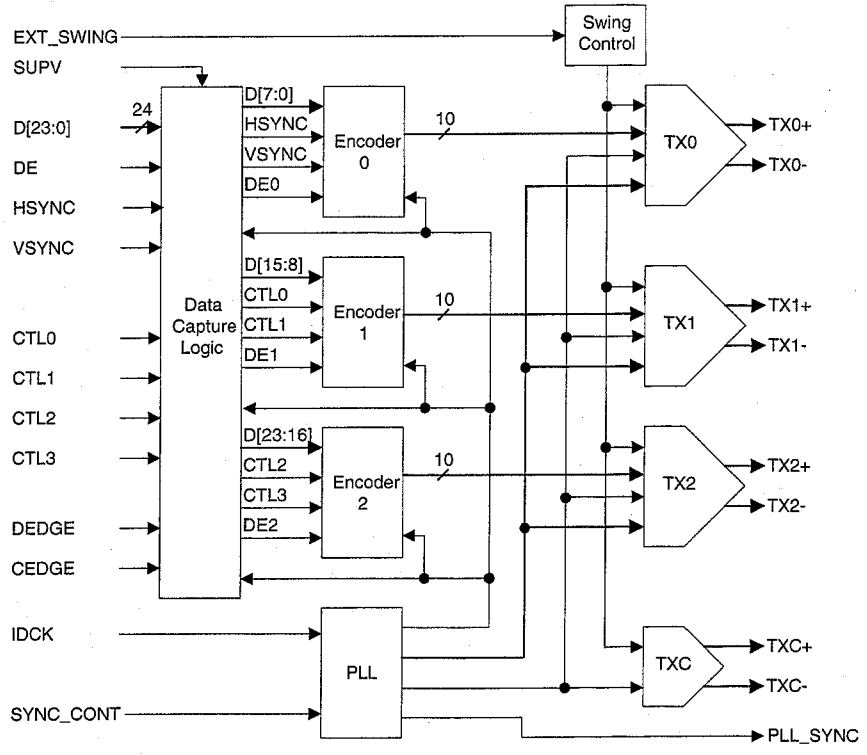


Pin Configuration

Pin Configurations



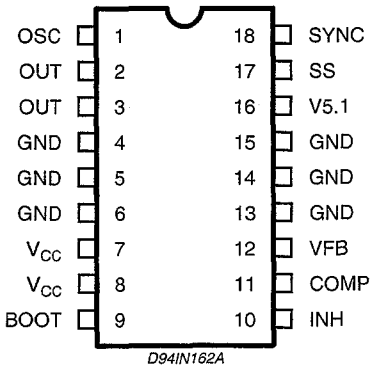
Block Diagram



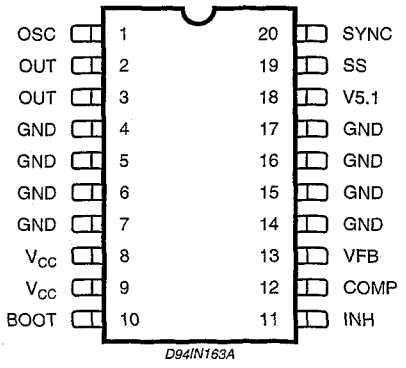
Pin #	Pin Name	Type	Description
1	DE	In	Input Data Enable. This signal qualifies the active data period. DE is always required by the SiI100 and must be high during active display time and low during blank time.
2	HSYNC	In	Horizontal Sync input control signal.
3	VSYNC	In	Vertical Sync input control signal.
4	GND	Ground	Digital GND.
5	CTL0	In	Reserved control signal, which should be connected to PLL_SYNC (pin 36).
6	CTL1	In	General input control signal 1.
7	CTL2	In	General input control signal 2.
8	CTL3	In	General input control signal 3.
9	DEDGE	In	Data Latching Edge. A low level indicates that input data (D[23:0]) will be latched on the falling edge of IDCK while a high level (3.3V) indicates that input data will be latched on the rising edge of IDCK.
10	VCC	Power	Core VCC. This VCC pin supplies power to the core digital logic and must be set to 3.3V.
11	CEDGE	In	Control Latching Edge. Controls latching edge of control signals DE, HSYNC, VSYNC, and CTL[3:0]. A low level indicates that input data enable and control signals will be latched on the falling edge of IDCK, while a high level (3.3V) indicates that input data enable and control signals will be latched on rising edge of IDCK.
12	IDCK	In	Input Data Clock. Input data can be valid either on falling or on rising edge of IDCK as selected by DEDGE pin.
13	RSVD	In	This signal must be tied high (3.3V) for normal operation.
14	SYNC_ CONT	In	PLL Synchronization Control. This signal should be tied high (3.3V) when PLL_SYNC is sent over CTL0, see Figure 13.
15	PLLCK	Out	Internal PLL Clock Output. The operating frequency is 2.5 times that of IDCK. This signal is for test purposes only, and should be left unconnected. To probe this signal output, a 500 Ω pull down resistor must be connected between this pin and ground.
16	GND	Ground	Digital GND.
17	PGND	Ground	PLL Analog GND.
18	PVCC	Power	PLL Analog VCC, must be set to 3.3V.
19	AGND	Ground	Analog GND.
20	TXC-	Analog	Low voltage Differential Signal output clock pair.
21	TXC+	Analog	
22	AVCC	Power	Analog VCC must be set to 3.3V.
23	TX0-	Analog	Low Voltage Differential Signal output data pairs.
24	TX0+	Analog	
25	AGND	Ground	Analog GND.
26	TX1-	Analog	Low Voltage Differential Signal output data pairs.
27	TX1+	Analog	

Pin #	Pin Name	Type	Description
28	AVCC	Power	Analog VCC must be set to 3.3V.
29	TX2-	Analog	Low Voltage Differential Signal output data pairs.
30	TX2+	Analog	
31	AGND	Ground	Analog GND.
32	VCC	Power	Core VCC. This VCC pin supplies power to the core digital logic and must be set to 3.3V.
33	EXT_ SWING	Analog	Voltage Swing Adjust. A resistor should tie this pin to AVCC. The amplitude of the voltage swing is determined by this resistance. For remote display applications, 400 Ω is recommended. For laptop computers, 680 Ω is recommended.
34	SUPV	In	Input Threshold Voltage Control. A high level (3.3V) indicates that input signal voltage level is 5V and a low level indicates that input signal voltage level is 3.3V. Should match IVCC voltage.
35	PD	In	Power Down (active low). A high level (3.3V) indicates normal operation and a low level indicates power down mode. During power down mode, all data and control inputs are disabled and most internal logic is powered down.
36	PLL_ SYNC	Out	PLL Synchronization. Generated every VSYNC to force synchronization of both transmitter and receiver PLL clocks. This pin must be connected to pin 5 (CTL0) to enable the PLL synchronization feature.
37	D23	In	Input Data.
38	D22	In	
39	VCC	Power	Core VCC. This VCC pin supplies power to the core digital logic and must be set to 3.3V.
40	D21	In	Input Data.
41	D20	In	
42	D19	In	
43	D18	In	
44	D17	In	
45	GND	Ground	Digital GND.
46	D16	In	Input Data.
47	D15	In	
48	D14	In	
49	D13	In	
50	D12	In	
51	D11	In	
52	D10	In	
53	IVCC	Power	Input VCC. This VCC pin supplies power for the input pin protection devices. This pin must be set to 5V if input signals are at 5V and can be set to 3.3V if input signals are at 3.3V. SUPV should be set accordingly.
54	D9	In	Input Data.
55	D8	In	
56	D7	In	
57	D6	In	
58	D5	In	
59	D4	In	
60	D3	In	
61	D2	In	
62	D1	In	
63	D0	In	
64	64	Ground	Digital GND.

Pin Configuration

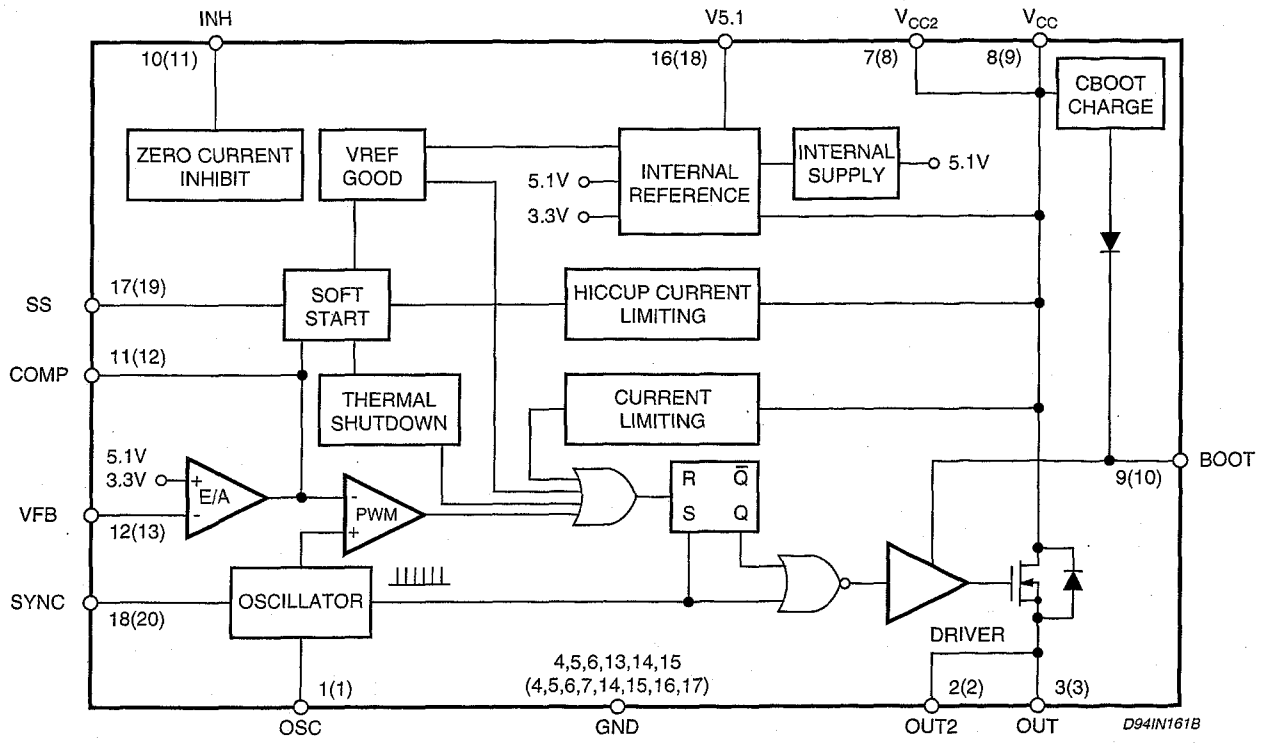


DIP18



SO20

Block Diagram

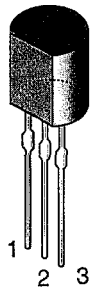


Pin x = Powerdip
Pin (x) = S020

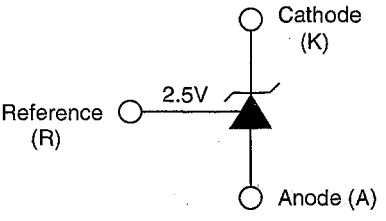
PIN FUNCTIONS

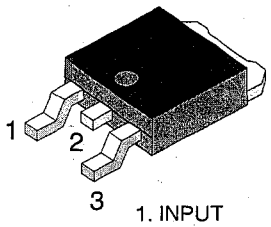
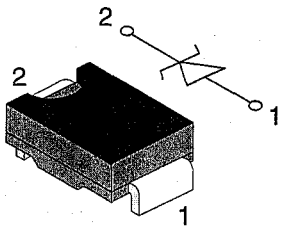
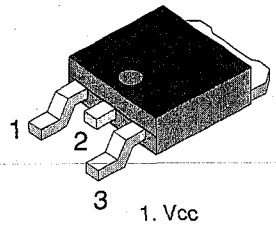
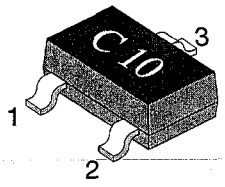
PIN DIP-18	PIN SO-20	NAME	DESCRIPTION
11	12	COMP	E/A output to be used for frequency compensation
10	11	INH	A logic signal (active high) disables the device (sleep mode operation). If not used it must be connected to GND; if floating the device is disabled.
9	10	BOOT	A capacitor connected between this pin and the output allows to drive the internal D-MOS.
18	20	SYNC	Input/Output synchronization.
7,8	8,9	Vcc	Not regulated DC input voltage
2,3	2,3	OUT	Stepdown regulator output.
12	13	VFB	Stepdown feedback input. Connecting directly this pin to the output 3.3V and 5.1V are obtained; a voltage divider is requested for higher output voltages. For voltage below 3.3V see note **
16	18	V5.1	Reference voltage externally available.
4,5,6 13,14,15	4,5,6,7 14,15,16,17	GND	Signal ground
1	1	OSC	An external resistor connected between the unregulated input voltage and Pin 1 and a capacitor connected from Pin 1 to ground fixes the switching frequency. (Line feed forward is automatically obtained)
17	19	SS	Soft start time constant. A capacitor connected between this terminal and ground determinates the soft start time.

KIA431 Programmable Shunt Regulator



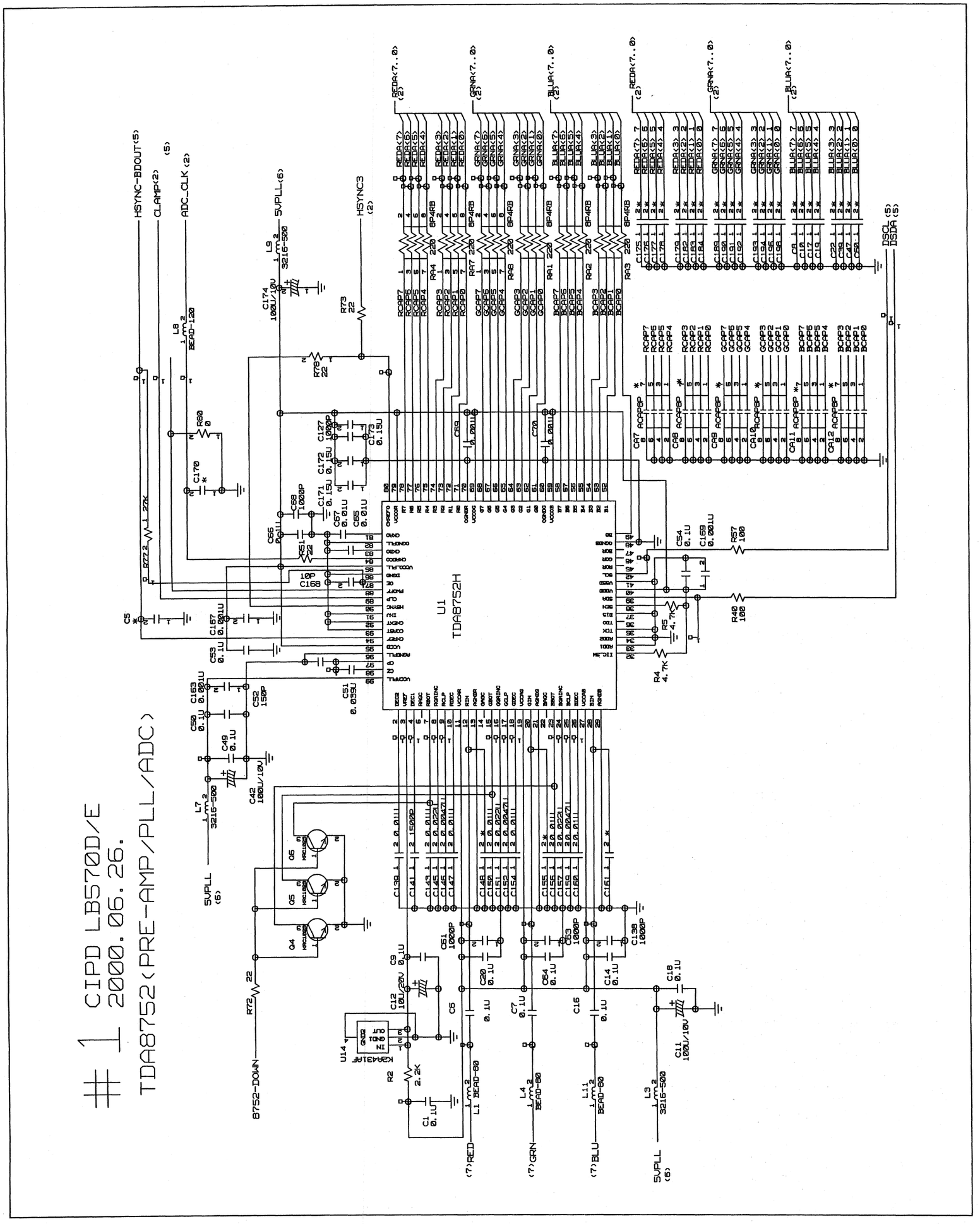
1: REFERENCE
2: ANODE
3: CATHODE



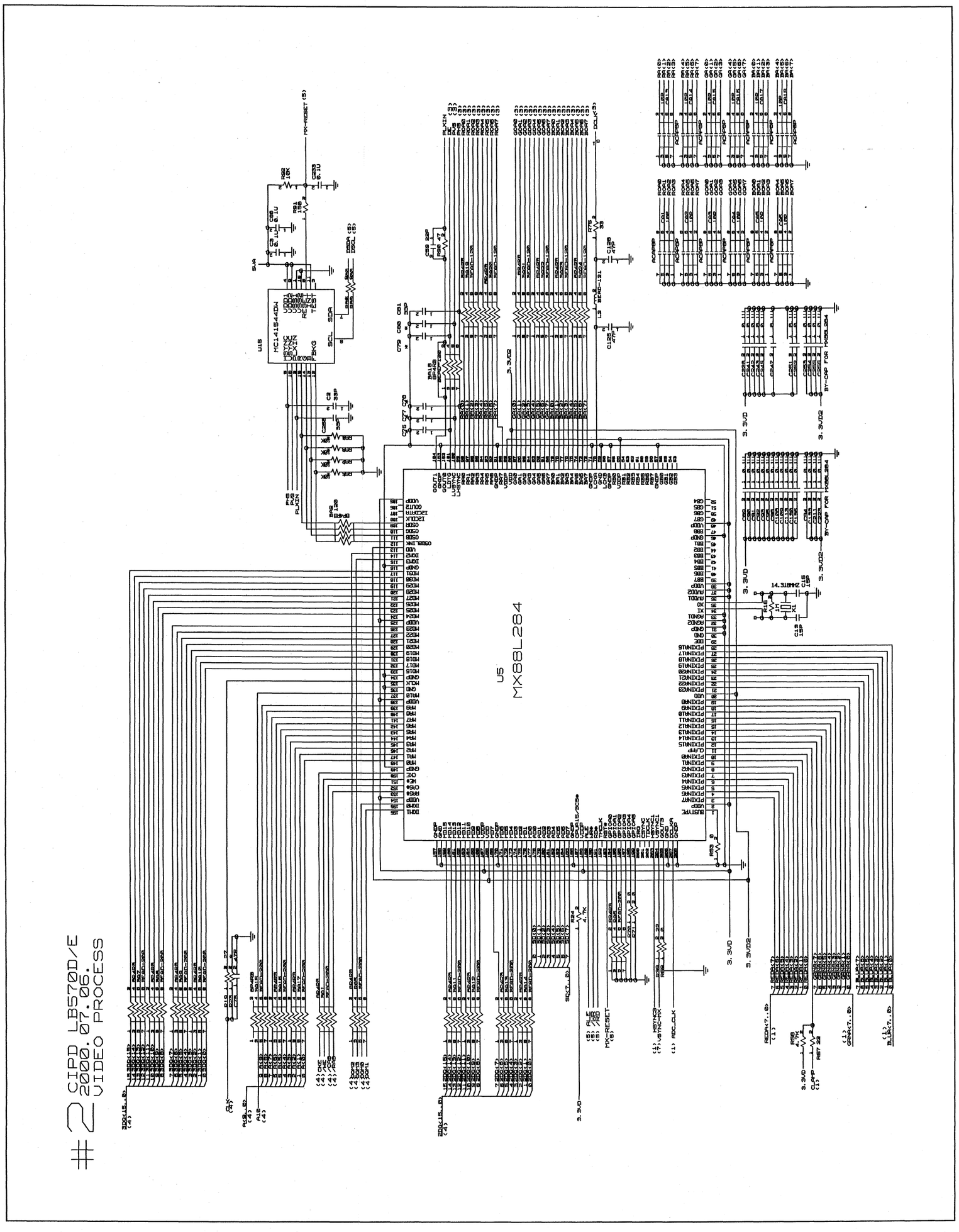
TYPE	PARTS	TYPE	PARTS
	Regulator		**Schottky Diode**
 1. INPUT 2. GND 3. OUTPUT	KA78M05R KA78M12R		MBRS130T3 MBRS190T3
			Transistor
 1. Vcc 2. GND 3. OUT	BA033FP	 1. BASE 2. EMITTER 3. COLLECTOR	KSC1623

SCHEMATIC DIAGRAM

1. TDA8752 (PRE-AMP/PLL/ADC)



2. VIDEO PROCESS



#3 CIPD LB570D/E
2000.05.22
PANEL-LINK
FOR 8 BIT

SIL100

U16

3.3VD
R68 27K
R112 27K
C205 1U
C118 0.1U
C203 1U
C204 0.1U
C207 0.1U
C208 0.1U
R113 *
C209 0.1U
C212 1U
C215 0.1U
C216 1U
R114 27K
R116 27K
C213 20.1U
C214 20.1U
C164 0.1U
C206 68P
C119 68P
(2)DCLK
(2)PVS
(2)PHS
(2)DE

L21 STC104B
C149 TANTAL 10U/16V
C166 0.1U
C219 1U
PVCC
PGND

C257 *
C258 *

CMF1
CMF4
CMF3
CMF5
CMFBP

TMDSCLKN(7)
TMDSCLKP(7)
TMDSBLUN(7)
TMDSBLUP(7)
TMDSGRNN(7)
TMDSGRNP(7)
TMDSREDN(7)
TMDSREDP(7)
TMDSGND(6)
TMDSPWR(6)

L10 STC104B
C153 10U/16V TANTAL
C158 0.1U
C187 1U

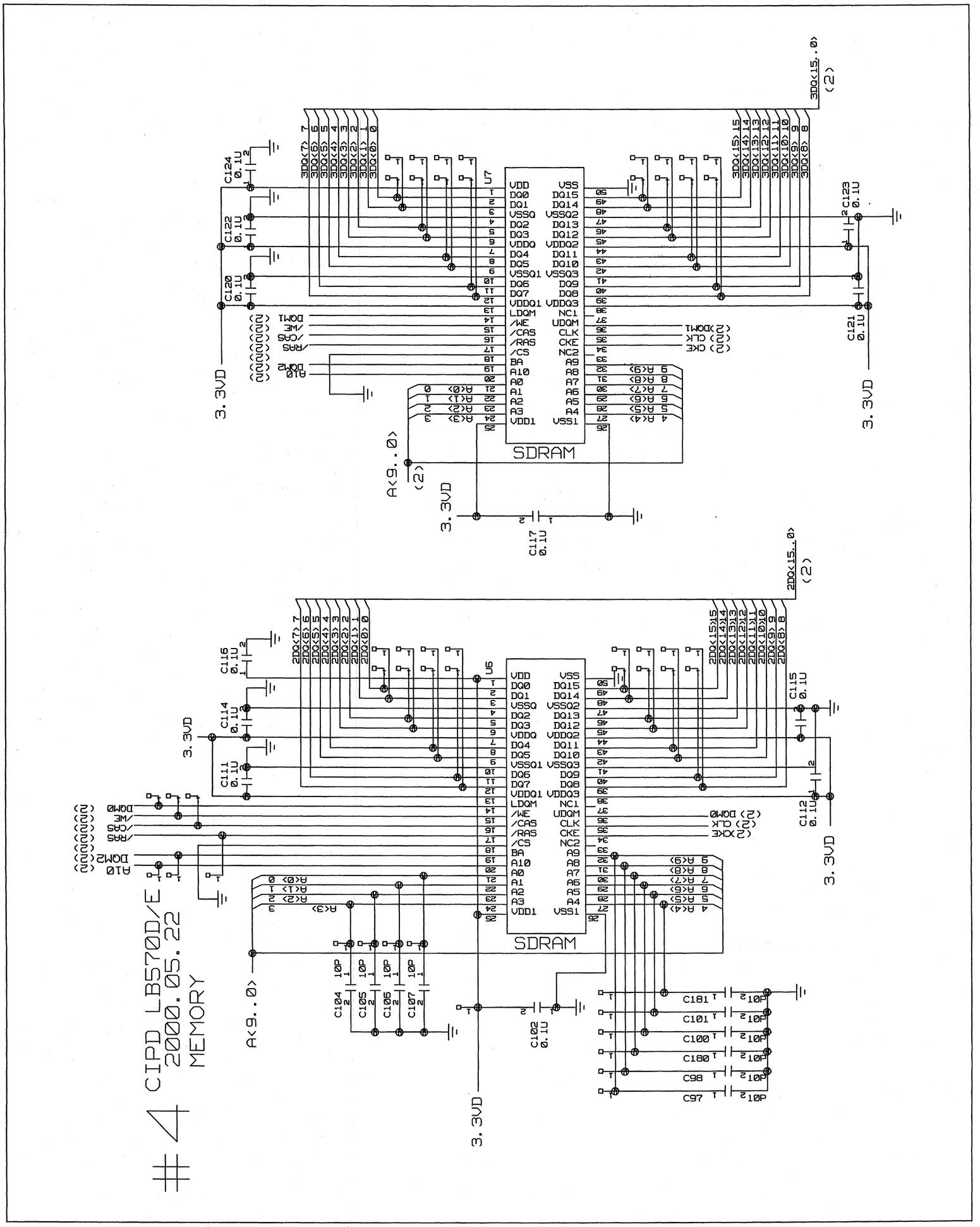
C185 0.1U
C186 0.1U
C110 0.1U
C202 0.1U

C162 0.1U
R115 27K
C99 68P
R117 680
C165 0.1U
C103 1U
R118 27K
C62 0.1U
SIL-DOWN (5)

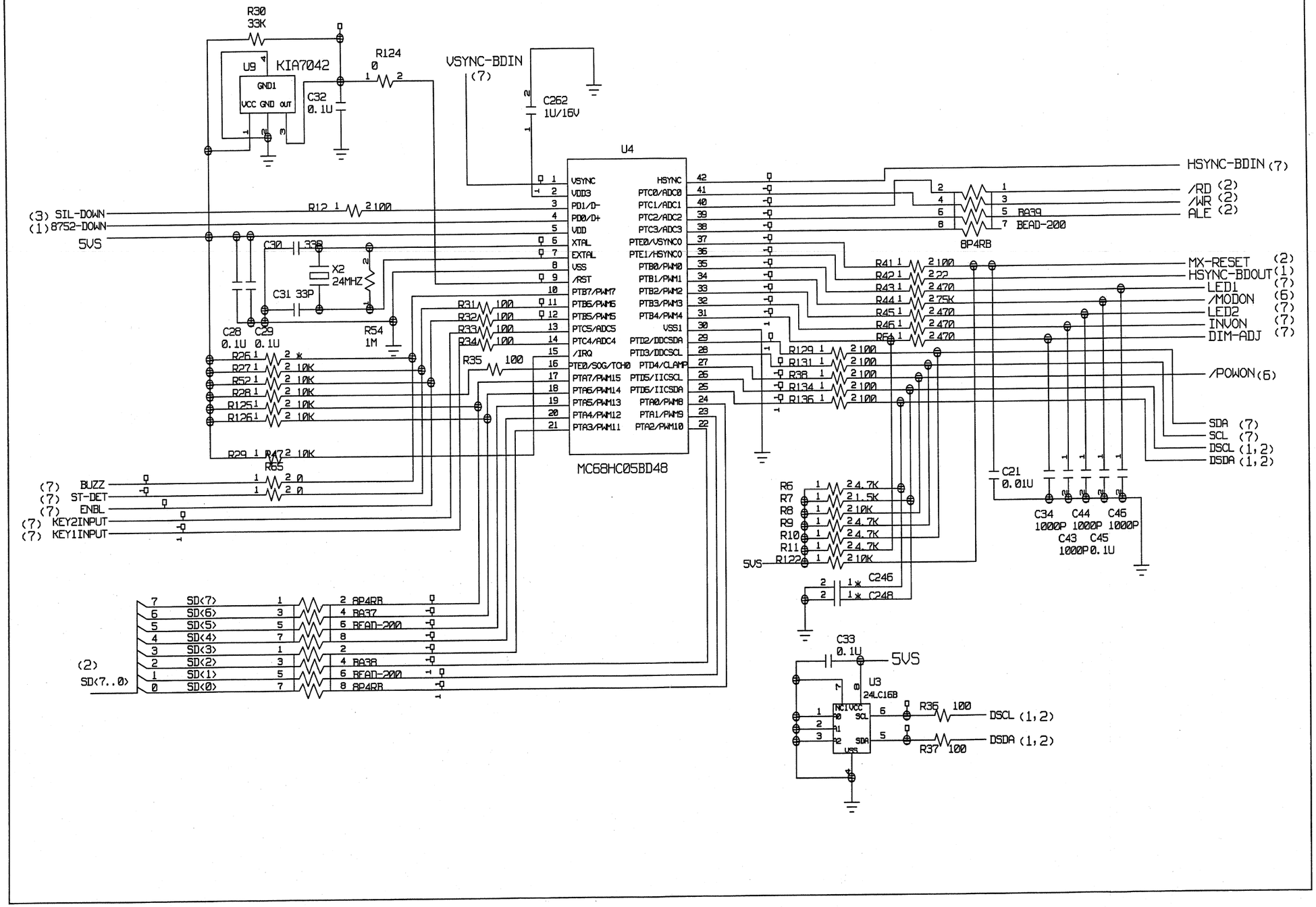
L25 STC104B
C217 TANTAL 10U/16V
C220 0.1U
C222 1U
TMDSPWR
TMDSGND

C218 0.1U
C221 0.1U
TMDSPWR

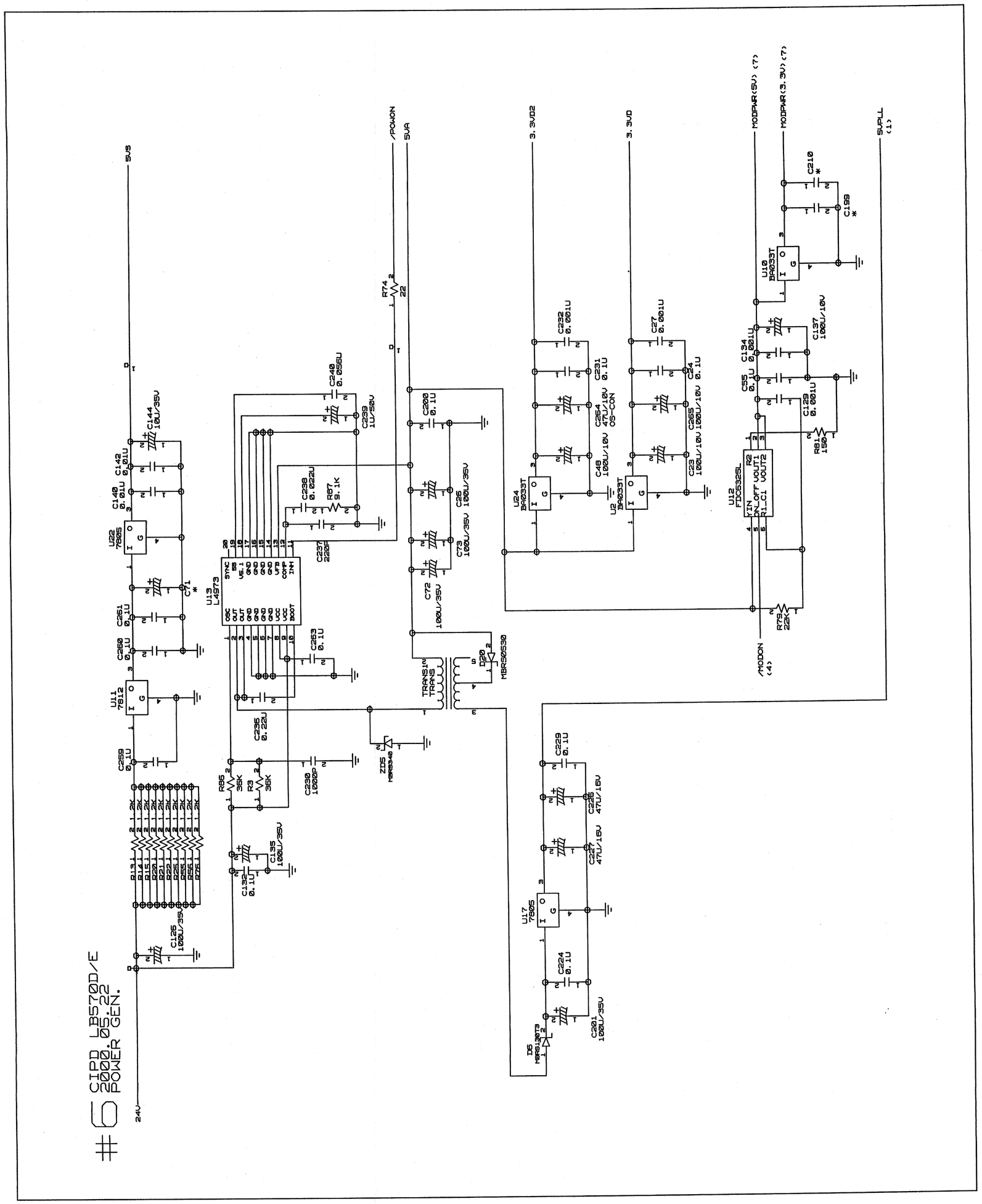
4. MEMORY

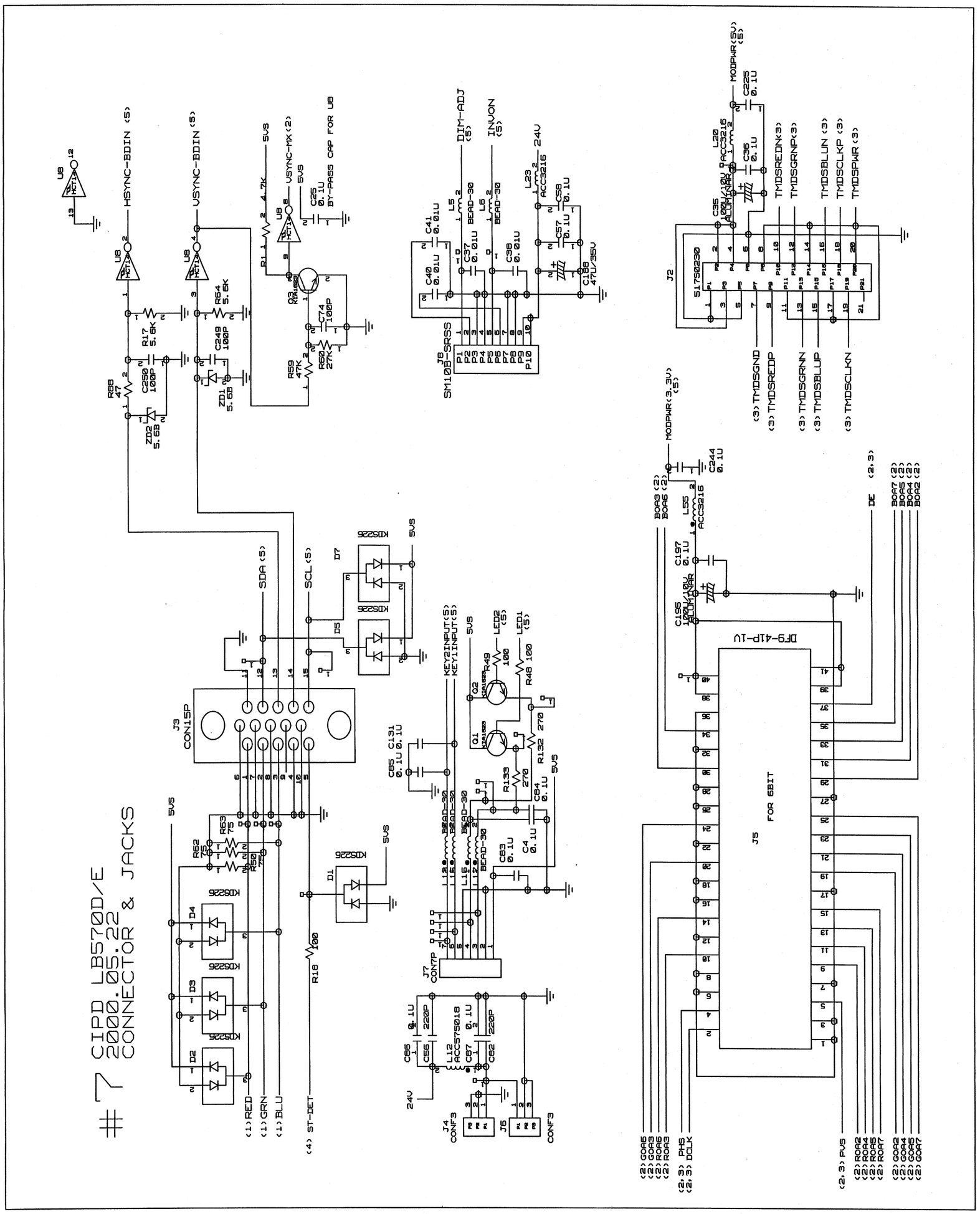

SDRAM
U7
U6
3DQ<15..0>
2DQ<15..0>
A<9..0>
3.3VD
C124 0.1U
C122 0.1U
C120 0.1U
C123 0.1U
C121 0.1U
C116 0.1U
C114 0.1U
C111 0.1U
C115 0.1U
C112 0.1U
C117 0.1U
C104 10P
C105 10P
C106 10P
C107 10P
C102 0.1U
C181 10P
C101 10P
C100 10P
C180 10P
C98 10P
C97 10P
4 CIPD LB570D/E
2000.05.22
MEMORY

#5 CIPD LB570D/E 2000.06.26. MICOM



6. POWER GEN.


#6 CIPD LB570D/E
2000.05.22
POWER GEN.
5VS
24V
/POWON
5VA
3.3VD2
3.3VD
MODPWR(5V) <7>
MODPWR(3.3V) <7>
5VPLL
<1>
/MODON
<4>
U22 7805
U11 7812
U13 L4973
U24 BA033T
U2 BA033T
U10 BA033T
U17 7805
U12 FDC6325L
TRANS1 TRANS
D20 MBRS0530
D5 MBR13073
ZD5 MMBZ5240
C140 0.01U
C142 0.01U
C144 10U/35V
C259 0.1U
C260 0.1U
C261 0.1U
C71 *
C126 100U/35V
C135 100U/35V
C132 0.1U
C235 0.22U
C238 0.022U
C239 1U/50V
C240 0.056U
C237 220P
C230 1000P
C263 0.1U
C200 0.1U
C25 100U/35V
C73 100U/35V
C72 100U/35V
C232 0.001U
C231 0.1U
C264 47U/10V OS-CON
C48 100U/10V
C27 0.001U
C24 0.1U
C265 100U/10V
C23 100U/10V
C55 0.1U
C134 0.001U
C137 100U/10V
C129 0.001U
C210 *
C195 *
R74 22
R85 36K
R3 36K
R87 9.1K
R81 150
R79 22K
R13.1 2K
R14 2K
R15 2K
R20 2K
R21.1 2K
R22 2K
R25 2K
R55.1 2K
R76 2K
C229 0.1U
C225 47U/16V
C227 47U/16V
C224 0.1U
C201 100U/35V


#7 CIPD LB570D/E
2000.05.22
CONNECTOR & JACKS
HSYNC-BDIN (5)
VSYNC-BDIN (5)
VSYNC-MX (2)
BY-PASS CAP FOR U8
DIM-ADJ (5)
INVON (5)
24V
MODPWR(5V) (5)
MODPWR(3.3V) (5)
TMDSGND
TMDSREDP
TMDSREDN
TMDSGRNP
TMDSGRNN
TMDSBLUP
TMDSBLUN
TMDSCLKP
TMDSCLKN
TMDSPWR
SM10B-SRSS
51790230
ACC3216
FOR 6BIT
DF9-41P-1V
CON15P
CON7P
KDS226
SDA (5)
SCL (5)
KEY2INPUT(5)
KEY1INPUT(5)
LED2 (5)
LED1 (5)
(1) RED
(1) GRN
(1) BLU
(4) ST-DET
(2,3) PVS
(2,3) PHS
(2,3) DCLK

PACKING AND ACCESSORIES